SIEMENS

Data sheet

3RT2017-1FB41



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 24 V DC, with integrated diode, 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 	1.5 W
 at AC in hot operating state per pole 	0.5 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	7.3g / 5 ms, 4.7g / 10 ms
shock resistance with sine pulse	
• at DC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	30 000 000
 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)	
SVHC substance name	Lead - 7439-92-1
Weight	0.291 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	95 %

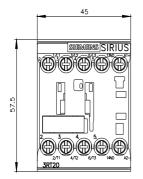
maximum	
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] total	153 kg
Global Warming Potential [CO2 eq] during manufacturing	1.42 kg
Global Warming Potential [CO2 eq] during operation	152 kg
Global Warming Potential [CO2 eq] after end of life	-0.305 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 	22 A
• 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 value 	20 A
• at AC-3	12.4
— at 400 V rated value — at 500 V rated value	12 A 9.2 A
— at 690 V rated value	9.2 A 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 mm²
operational current for approx. 200000 operating cycles at AC-4	4.1.4
at 400 V rated value	4.1 A
• at 690 V rated value operational current	3.3 A
• 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

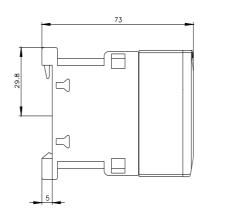
— at 600 V rated value	0.7 A
with 3 current paths in series at DC-1 at 24 \/ rated value	20.4
— at 24 V rated value — at 60 V rated value	20 A 20 A
— at 100 V rated value	20 A
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1.3.7
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	20 A
— at 60 V rated value	0.5 A
— at 110 V rated value	0.15 A
• with 2 current paths in series at DC-3 at DC-5	
— 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 	
— 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
operating power	
• 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	
— 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
operating power for approx. 200000 operating cycles at AC- 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 $^\circ\mathrm{C}$	
 limited to 1 s switching at zero current maximum 	200 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	123 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	96 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	74 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	61 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at DC	10 000 1/h
operating frequency	1 000 1/b
• at AC-1 maximum	1 000 1/h 750 1/h
 at AC-2 maximum at AC-3 maximum 	750 1/h 750 1/h
■ at AC-3 maximum	750 1/h

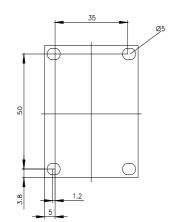
+ Ho-4 maximum 250 the Control Moduli Control supply voltage DC Control Supply voltage at DC cated value 24 V Control Supply voltage at DC cated value 24 V Separating ange poir control supply voltage stated value 24 V Separating ange poir control supply voltage stated value 0.8 - India Value 0.4 - India Value 0.4 - India Value 0.4 - India Value 0.8 - India Value 0.8 - India Value 0.8 - India Value 0.8 - India Value 0.5 - India Value 0.5 - India Value 0.6 - India Value 0.4 - Indi	• at AC-3e maximum	750 1/h
Control Control Type of voltage of the control supply voltage DC Control Supply to tage at DC rated value 24 V Operating arrays factor control supply voltage rated value of magnet col at DC 0.8 • Indicated value 0.4 • I		
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control supply voltage table value 24 V operating mays factor control supply voltage rated value of inflat value 0.8 inflat value 0.9 inflat value 1 control value 0.0 inflat value 0.0 <td></td> <td></td>		
operating range factor control supply voltage rated value of magnet col at DC 0.8 • full-scale value 0.1 design of the surge suppressor diode cloating power of magnet col at DC 4.W holding power of magnet col at DC 4.W cloating design		
might old is DC 0 • Individue 0.8 • Individue 0.8 • Individue 1.1 design of the surge suppressor 0.00 ms • Individue 0.8 • Individue 0.9 • Individue 0.8 • Individue 0.4 <		
• Ill scale value 11 design of the surge suppressor diade Cohing power of magnet coil at DC 4 W Indian power of magnet coil at DC 4 W • at DC 30 100 ms opening datay		
design of the surge suppressor diode closing power of magnet coil at DC 4 W closing power of magnet coil at DC 4 W closing delay a • at DC 30 100 ms opening delay a • at DC 30 56 ms arcing time 10 15 ms control version of the switch operating mechanism 11 Auxiliary circuit 10 A operational current at AC-12 maximum 10 A operational current at AC-15 10 A • at 200 Vrated value 10 A operational current at AC-15 10 A • at 300 Vrated value 10 A • at 300 Vrated value 10 A • at 300 Vrated value 10 A • at 400 Vrated value 10 A • at 400 Vrated value 10 A • at 400 Vrated value 10 A • at 40 Vrated value 10 A • at 410 Vrated value 10 A • at 24 Vrated value 10 A • at 20 Vrated value 10 A • at 20 Vrated	• initial value	0.8
closing power of magnet coil at DC 4 W helding power of magnet coil at DC 4 W closing dialy 30 100 ms opening dialy 30 100 ms opening dialy 38 65 ms arcing time 10 15 ms control version of the switch operating mechanism Standard A1 - A2 Auxiliary cortexit 1 contacts for auxiliary contacts instantaneous 1 contact 10 A operational current at AC-12 maximum 10 A operational current at AC-13 maximum 10 A operational current at AC-14 maximum 10 A operational current at AC-15 1 i at 300 Vrated value 2 A i at 800 Vrated value 1 A operational current at AC-12 maximum 10 A operational current at AC-12 maximum 10 A i at 800 Vrated value 2 A i at 800 Vrated value 6 A i at 800 Vrated value 6 A i at 800 Vrated value 10 A i at 80 Vrated value 10 A	full-scale value	1.1
helding power of magnet coll at DC 4 W closing stary a	design of the surge suppressor	diode
closing delay so 100 ms • at CC so 100 ms opaing delay so 100 ms • at DC so 100 ms arcing time 10 15 ms control of the switch operating mechanism Standard A1 - A2 Auxiliary circuit number of N0 contacts for auxiliary contacts instantaneous 1 contact 000 10 A operational current at AC-12 maximum 10 A operational current at AC-12 01 A • at 800 Vrated value 2A • at 800 Vrated value 6A • at 80 Vrated value 0.5A		
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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-12 maximum 10 A • at 230 V rated value 10 A • at 230 V rated value 10 A • at 500 V rated value 2 A • at 600 V rated value 10 A • at 450 V rated value 10 A • at 450 V rated value 10 A • at 46 V rated value 10 A • at 46 V rated value 6 A • at 60 V rated value 6 A • at 125 V rated value 3 A • at 200 V rated value 10 A • at 200 V rated value 1 A • at 200 V rated value 1 A • at 600 V rated value 1 A • at 600 V rated value 10 A • at 80 V rated value 2 A • at 60 V rated value 1 A • at 20 V rated value 0 A • at 20 V rated value 0 A • at 80 V rated value 0 A • at 80 V rated value <td< th=""><th></th><th></th></td<>		
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 at 200 V rated value 3 A at 300 V rated value 2 A at 400 V rated value 1 A operational current at DC-12 1 A at 400 V rated value 6 A at 60 V rated value 6 A at 60 V rated value 7 A at 125 V rated value 1 A operational current at DC-13 0 A at 20 V rated value 0.15 A operational current at DC-13 0.9 A at 125 V rated value 0.4 A at 120 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) ULCSA ratings 11 A ot 600 V rated value 0.5 hp	· •	
contact 0A operational current at AC-15 10 A • at 230 V rated value 10 A • at 400 V rated value 3 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 6 A • at 60 V rated value 6 A • at 60 V rated value 6 A • at 60 V rated value 6 A • at 24 V rated value 6 A • at 25 V rated value 10 A • at 25 V rated value 6 A • at 20 V rated value 10 A • at 20 V rated value 0.15 A operational current at DC-13 10 A • at 20 V rated value 0.5 A • at 200 V rated value 11 A <tr< th=""><td></td><td>1</td></tr<>		1
operational current at AC-15 10 A • at 200 V rated value 10 A • at 400 V rated value 3 A • at 600 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 48 V rated value 6 A • at 10 V rated value 6 A • at 10 V rated value 6 A • at 22 V rated value 1 A • at 20 V rated value 6 A • at 20 V rated value 1 A • at 20 V rated value 6 A • at 20 V rated value 1 A • at 20 V rated value 0 A • at 20 V rated value 0 A • at 20 V rated value 0 A • at 210 V rated value 0 A • at 210 V rated value 0 A • at 210 V rated value 0 A • at 20 V rated value 1 A • at 200 V rated value 1 A		
• at 230 V rated value 10 A • at 230 V rated value 3 A • at 650 V rated value 2 A • at 680 V rated value 1 A operational current at DC-12 1 A • at 24 V rated value 10 A • at 24 V rated value 6 A • at 10 V rated value 6 A • at 10 V rated value 6 A • at 10 V rated value 3 A • at 110 V rated value 10 A • at 220 V rated value 0 A • at 24 V rated value 0 A • at 25 V rated value 0 A • at 26 V rated value 0 A • at 27 V rated value 0 A • at 28 V rated value 0 A • at 20 V rated value 0 A • at 20 V rated value 0 A • at 20 V rated value 1 faulty switching per 100 million (17 V, 1 mA) ULCSA ratings 11 A fulled mechanical performance	operational current at AC-12 maximum	10 A
• at 400 V rated value 3 Å • at 650 V rated value 1 Å operational current at DC-12 1 Å • at 24 V rated value 10 Å • at 60 V rated value 6 Å • at 60 V rated value 6 Å • at 60 V rated value 6 Å • at 10 V rated value 7 Å • at 22 V rated value 1 Å • at 20 V rated value 1 Å • at 20 V rated value 1 Å • at 20 V rated value 1 Å • at 60 V rated value 1 Å • at 60 V rated value 2 Å • at 10 V rated value 1 Å • at 10 V rated value 1 Å • at 10 V rated value 1 Å • at 10 V rated value 0.9 Å • at 10 V rated value 0.1 Å contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings 11 Å full-load Current (FLA) for 3-phase AC motor 11 Å • at 600 V rated value 11 Å • at 600 V rated value 11 Å • at 600 V rated value 0.5 hp at 200/208 V rated value 1 Å <td>operational current at AC-15</td> <td></td>	operational current at AC-15	
• at 500 V rated value 2 Å • at 600 V rated value 1 Å operational current at DC-12 10 Å • at 24 V rated value 10 Å • at 60 V rated value 6 Å • at 60 V rated value 3 Å • at 10 V rated value 3 Å • at 10 V rated value 2 Å • at 220 V rated value 1 Å • at 220 V rated value 0.15 Å operational current at DC-13 0 Å • at 24 V rated value 2 Å • at 60 V rated value 2 Å • at 60 V rated value 0.15 Å operational current at DC-13 10 Å • at 40 V rated value 2 Å • at 24 V rated value 0.4 • at 60 V rated value 0.5 Å • at 60 V rated value 0.1 Å • at 60 V rated value 11 Å • at 60 V rated value 11 Å • at 60 V rated value 11 Å • at 60 V rated value 1 Å • at 60 V rated value <	• at 230 V rated value	10 A
• at 680 V rated value 1 A operational current at DC-12 10 A • at 24 V rated value 6 A • at 60 V rated value 6 A • at 10 V rated value 6 A • at 110 V rated value 2 A • at 25 V rated value 2 A • at 20 V rated value 0.15 A operational current at DC-13		
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• at 24 V rated value 10 A • at 48 V rated value 6 A • at 60 V rated value 6 A • at 110 V rated value 3 A • at 125 V rated value 2 A • at 220 V rated value 0.15 A operational current at DC-13 0 • at 48 V rated value 0.15 A operational current at DC-13 0 • at 48 V rated value 2 A • at 49 V rated value 2 A • at 48 V rated value 2 A • at 220 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) ULCSA ratings 11 A full-load current (FLA) for 3-phase AC motor 11 A • at 600 V rated value 11 A yielded mechanical performance [tp] 11 A • for single-phase AC motor 11 A • at 200 V rated value 2 hp • at 200 V rated value 2 hp • at 200 V rated value 3 hp • at 200 V rated value 3 hp • at 200/20		1 A
• at 48 V rated value 6 A • at 60 V rated value 6 A • at 110 V rated value 3 A • at 125 V rated value 2 A • at 220 V rated value 1 A • at 600 V rated value 0.15 A operational current at DC-13 0 • at 24 V rated value 10 A • at 48 V rated value 2 A • at 600 V rated value 2 A • at 10 V rated value 0.9 A • at 10 V rated value 0.9 A • at 10 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) ULCSA ratings 11 A • at 600 V rated value 11 A • at 480 V rated value 120 V rated value • at 480 V rated value 11 A • at 480 V rated value 2 hp • for 3-phase AC motor - - at 200208 V rated value 2 hp • for 3-phase AC motor	•	
• 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-1310 A• at 42 V rated value10 A• at 42 V rated value2 A• at 60 V rated value0.9 A• at 22 V rated value0.9 A• at 20 V rated value0.1 A• at 600 V rated value11 A• at 600 V rated value11 A• at 100 V rated value11 A• at 600 V rated value11 A• at 200 V rated value11 A• at 200 V rated value12 hp• for single-phase AC motor at 110/120 V rated value2 hp• for 3-phase AC motor at 200208 V rated value3 hp- at 200208 V rated value3 hp- at 480480 V rated value3 hp- at 480480 V rated value10 hp<		
• at 110 V rated value 3 A • at 125 V rated value 2 A • at 200 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 40 V rated value 2 A • at 40 V rated value 2 A • at 50 V rated value 2 A • at 10 V rated value 2 A • at 10 V rated value 2 A • at 10 V rated value 0.3 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) tu/CSA ratings 1 full-load current (FLA) for 3-phase AC motor 1 A • at 600 V rated value 11 A • at 100 / 20 V rated value 11 A vielded mechanical performance [hp] • • for single-phase AC motor - - at 200 V rated value 2 hp • for 3-phase AC motor - - at 2002 V rated value 3 hp - at 2002 V rated value 3 hp - at 2002 V rated value 3 hp - at 2002 V rated value 10 hp - at 2002 V rated value 10 hp - at 200		
• at 125 V rated value 2 A • at 200 V rated value 1 A • at 600 V rated value 0.15 A operational current at DC-13		
• 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 42 V rated value 2 A • at 60 V rated value 2 A • at 10 V rated value 0.9 A • at 125 V rated value 0.3 A • at 600 V rated value 0.14 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 11 A • at 600 V rated value 2 hp • for single-phase AC motor - - at 200/208 V rated value 0.5 hp - at 200/208 V rated value 3 hp - at 200/208 V rated value 3 hp - at 200/208 V rated value 3 hp - at 400/400 V rated value 7.5 hp		
• at 600 V rated value0.15 Aoperational current at DC-13100 A• at 24 V rated value10 A• at 48 V rated value2 A• at 60 V rated value2 A• at 10 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.14 A• at 600 V rated value1.1 A• at 600 V rated value3 hp- at 200/208 V rated value3 hp- at 200/208 V rated value3 hp- at 200/208 V rated value1.0 A- at 675/600 V rated value1.0 A <tr< th=""><th></th><th></th></tr<>		
• at 24 V rated value10 A• at 48 V rated value2 A• at 60 V rated value2 A• at 60 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)U/CSA ratingsU/CSA ratingstill-load current (FLA) for 3-phase AC motor• at 480 V rated value11 A• at 480 V rated value11 A• at 600 V rated value11 A• at 230 V rated value0.5 hp- at 110/120 V rated value0.5 hp- at 110/120 V rated value0.5 hp- at 230/208 V rated value3 hp- at 200/208 V rated value3 hp- at 200/208 V rated value3 hp- at 200/208 V rated value10 hp- at 60/400 V rated value7.5 hp- at 575/600 V rated value10 hp		
• at 48 V rated value2 A• at 60 V rated value2 A• at 10 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)UL/CSA ratingsI full-load current (FLA) for 3-phase AC motor• at 480 V rated value11 A• at 600 V rated value11 A• at 600 V rated value11 A• at 600 V rated value0.5 hp• at 110/120 V rated value0.5 hp• at 230 V rated value0.5 hp- at 200/208 V rated value3 hp• at 200/208 V rated value3 hp• at 400/80 V rated value10 hp- at 200/208 V rated value10 hp- at 460/80 V rated value10 hp- at 575/600 V rated value10 hp	operational current at DC-13	
• at 60 V rated value2 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)UL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value11 A• at 600 V rated value11 Ayielded mechanical performance [hp]11 A• for single-phase AC motor2 hp- at 110/120 V rated value2 hp• for 3-phase AC motor2 hp- at 230 V rated value3 hp- at 200/208 V rated value3 hp- at 200/208 V rated value3 hp- at 460/480 V rated value7.5 hp- at 460/480 V rated value10 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protection4esign of the fuse link	• at 24 V rated value	10 A
e 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)UL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value11 A• at 600 V rated value11 A• at 600 V rated value11 Ayielded mechanical performance [hp]• for single-phase AC motor- at 110/120 V rated value0.5 hp- at 230 V rated value2 hp• for 3-phase AC motor- at 230 V rated value- at 200/208 V rated value3 hp- at 200/208 V rated value3 hp- at 200/208 V rated value10 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protection- at 575/600 V rated value	• 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 value11 A• at 600 V rated value11 Aylelded mechanical performance [hp]11 A• for single-phase AC motor0.5 hp- at 110/120 V rated value2 hp• for 3-phase AC motor2 hp- at 220/230 V rated value3 hp- at 220/230 V rated value3 hp- at 460/480 V rated value10 hp- at 575/600 V rated value10 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protection4600 / Q600	• 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 value11 A• at 600 V rated value11 Ayielded mechanical performance [hp]11 A• for single-phase AC motor at 110/120 V rated value0.5 hp- at 230 V rated value2 hp• for 3-phase AC motor at 200/208 V rated value3 hp- at 200/208 V rated value3 hp- at 200/208 V rated value3 hp- at 460/480 V rated value7.5 hp- at 575/600 V rated value10 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protection-design of the fuse link-	• 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 motor11 A• at 480 V rated value11 A• at 600 V rated value11 A• at 600 V rated value0.5 hp- at 110/120 V rated value0.5 hp- at 230 V rated value3 hp- at 200/208 V rated value3 hp- at 200/208 V rated value3 hp- at 460/480 V rated value10 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protection4600 / Q600	• 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 11 A • at 600 V rated value 11 A yielded mechanical performance [hp] • for single-phase AC motor - at 110/120 V rated value 0.5 hp - at 230 V rated value 2 hp • for 3-phase AC motor - at 200/208 V rated value - at 200/208 V rated value 3 hp - at 220/230 V rated value 3 hp - at 460/480 V rated value 7.5 hp - at 575/600 V rated value 10 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection design of the fuse link	• 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 • at 600 V rated value 11 A yielded mechanical performance [hp] • for single-phase AC motor - at 110/120 V rated value 0.5 hp - at 230 V rated value 2 hp • for 3-phase AC motor - at 200/208 V rated value 3 hp - at 220/230 V rated value 3 hp - at 460/480 V rated value 7.5 hp - at 575/600 V rated value 10 hp contact rating of auxiliary contacts according to UL A600 / Q600		
full-load current (FLA) for 3-phase AC motor 11 A • at 480 V rated value 11 A • at 600 V rated value 11 A yielded mechanical performance [hp] 11 A • for single-phase AC motor - at 110/120 V rated value - 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 - at 200/208 V rated value 3 hp - at 460/480 V rated value 7.5 hp - at 675/600 V rated value 10 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection design of the fuse link		1 faulty switching per 100 million (17 V, 1 mA)
• at 480 V rated value11 A• at 600 V rated value11 Ayielded mechanical performance [hp]11 A• for single-phase AC motor0.5 hp- at 110/120 V rated value0.5 hp- at 230 V rated value2 hp• for 3-phase AC motor at 200/208 V rated value3 hp- at 220/230 V rated value3 hp- at 460/480 V rated value7.5 hp- at 575/600 V rated value10 hpcontact rating of auxiliary contacts according to ULA6000 / Q600Short-circuit protection-design of the fuse link-		
• at 600 V rated value11 Ayielded mechanical performance [hp]11 A• for single-phase AC motor0.5 hp- at 110/120 V rated value0.5 hp- at 230 V rated value2 hp• for 3-phase AC motor3 hp- at 200/208 V rated value3 hp- at 250/200 V rated value3 hp- at 460/480 V rated value7.5 hp- at 575/600 V rated value4600 / Q600Short-circuit protectionK		
yielded mechanical performance [hp]		
 for single-phase AC motor at 110/120 V rated value at 230 V rated value bp at 230 V rated value cord at 200/208 V rated value at 220/230 V rated value bp at 220/230 V rated value cord at 460/480 V rated value cord at 575/600 V rated value bp cord at cord at a cording to UL A600 / Q600 		II A
at 110/120 V rated value0.5 hp at 230 V rated value2 hp• for 3-phase AC motor at 200/208 V rated value3 hp at 220/230 V rated value3 hp at 460/480 V rated value7.5 hp at 575/600 V rated value10 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectiondesign of the fuse link		
- at 230 V rated value2 hp• for 3-phase AC motor at 200/208 V rated value3 hp- at 220/230 V rated value3 hp- at 220/230 V rated value7.5 hp- at 460/480 V rated value10 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectiondesign of the fuse link		0.5 hp
• for 3-phase AC motor3 hp- at 200/208 V rated value3 hp- at 220/230 V rated value3 hp- at 460/480 V rated value7.5 hp- at 575/600 V rated value10 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectiondesign of the fuse link		
	-	3 hp
Short-circuit protection design of the fuse link	— at 575/600 V rated value	
design of the fuse link	contact rating of auxiliary contacts according to UL	A600 / Q600
	Short-circuit protection	
for short-circuit protection of the main circuit	design of the fuse link	
	 for short-circuit protection of the main circuit 	

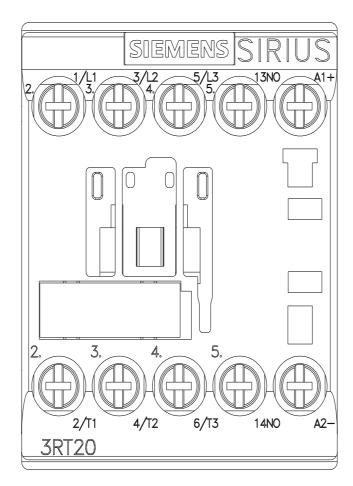
- with type of coordination 1 required	gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
- with type of assignment 2 required	gG: 20A (690V,100kA), aM: 20A (690V, 100kA), BS88: 20A (415V, 80kA)
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
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 Connections/ Terminals	6 mm
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	<i>"</i>
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	
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)
for AWG cables for auxiliary contacts	
	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)
• for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14), 2x 12
for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14), 2x 12 20 12
for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14), 2x 12 20 12
for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts Safety related data	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14), 2x 12 20 12
for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts Safety related data product function	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14), 2x 12 20 12 20 12
for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts Safety related data product function mirror contact according to IEC 60947-4-1 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14), 2x 12 20 12 20 12 Yes; with 3RH29
for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts Safety related data product function mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14), 2x 12 20 12 20 12 Yes; with 3RH29 No

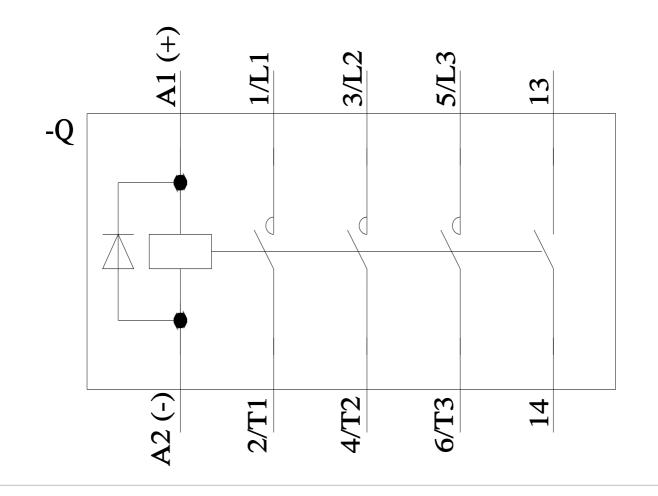
test wear-related serv	ice life necessary		Yes		
proportion of dangero	ous failures				
 with low demand 	I rate according to SN 319	20	40 %		
 with high deman 	d rate according to SN 319	920	73 %		
B10 value with high d	emand rate according to	SN 31920	1 000 000		
failure rate [FIT] with 31920	low demand rate accordi	ing to SN	100 FIT		
ISO 13849					
device type according	g to ISO 13849-1		3		
	cording to ISO 13849-2 n	ecessary	Yes		
IEC 61508	0				
	cording to IEC 61508-2		Туре А		
Electrical Safety	..		71		
•	the front according to I	EC 60529	IP20		
-	he front according to IEC		finger-safe, for vertical conta	ct from the front	
oprovals Certificates					
General Product App	roval				
CE EG-Konf.	UK CA		<u>Confirmation</u>		KC
General Product Approval	EMV	Functional Safte	ey Test Certificates		Marine / Shipping
FAC	<i>\</i>	Type Examination tificate	Cer- <u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	
	RCM				ABS
Marine / Shipping	RCM				ABS
Marine / Shipping	RCM	PRS	RINA	RMRS RMRS	ABS other <u>Miscellaneous</u>
BUREAU	RCM	PRS Dangerous good	RINA S Environment	RMRS	
B UREAU VERITAS	2	PRS PRS		Environmental Con- firmations	
other Confirmation	Railway Special Test Certific- ate	Transport Informa			
other Confirmation	Railway Special Test Certific- ate ckaging siemens.com/cs/ww/en/vi nloadcenter (Catalogs, E	Transport Informa			
UREAU VERITAS	Railway Special Test Certific- ate ckaging .siemens.com/cs/ww/en/vi mloadcenter (Catalogs, E om/ic10 ordering system) mens.com/mall/en/en/Cata	<u>Ew/109813875</u> Brochures,) alog/product?mlfb=3 order/default.aspx? acteristics, FAQs,	ation EPD	firmations	
Urther information Information on the pa https://support.industry. Information- and Dow https://www.siemens.cc Industry Mall (Online of https://mall.industry.sier Cax online generator https://support.industry. Service&Support (Main https://support.industry. Image database (prod http://www.automation.	Railway Special Test Certific- ate ckaging siemens.com/cs/ww/en/vi nloadcenter (Catalogs, E om/c10 ordering system) mens.com/mall/en/en/Cata on.siemens.com/WW/CAX nuals, Certificates, Chara siemens.com/cs/ww/en/ps luct images, 2D dimensio siemens.com/bilddb/cax_co	ew/109813875 Brochures,) alog/product?mlfb=3 order/default.aspx? acteristics, FAQs,. s/3RT2017-1FB41 on drawings, 3D m de.aspx?mlfb=3RT2	ttion BRT2017-1FB41 lang=en&mlfb=3RT2017-1FB) odels, device circuit diagram	firmations	
Information on the pa https://support.industry. Information - and Dow https://support.industry. Information - and Dow https://www.siemens.cc Industry Mall (Online - https://support.industry. Service&Support (Mai https://support.industry. Image database (prod https://support.industry. Image database (prod https://support.industry.	Railway Special Test Certific- ate ckaging siemens.com/cs/ww/en/vi nloadcenter (Catalogs, E om/ic10 ordering system) mens.com/mall/en/en/Cata on.siemens.com/WW/CAX nuals, Certificates, Chara siemens.com/cs/ww/en/ps luct images, 2D dimensio	ew/109813875 Brochures,) alog/product?mlfb=3 order/default.aspx? acteristics, FAQs,. s/3RT2017-1FB41 on drawings, 3D m de.aspx?mlfb=3RT2 ot-through current s/3RT2017-1FB41/c	ttion BRT2017-1FB41 lang=en&mlfb=3RT2017-1FB) odels, device circuit diagram 017-1FB41⟨=en	firmations	











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