SIEMENS

Data sheet

3RT2017-2WB41



power contactor, AC-3 12 A, 5.5 kW / 400 V 1 NO, 24 V DC 0.85-1.85* US, with varistor plugged on, 3-pole size S00, spring-type terminal not expandable with auxiliary switch

product brand name	SIRIUS
product brand hane	Coupling contactor
product designation	3RT2
General technical data	51(12
	000
size of contactor	S00
product extension	
function module for communication	No
auxiliary switch	No
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	1.6 W
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 safe isolation 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 (switching cycles)	
of contactor typical	30 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-25 +60 °C
 during storage 	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3

operating voltage	
at AC-3 rated value maximum	690 V
 at AC-3 rated value maximum at AC-3e rated value maximum 	690 V
operational current	030 V
• at AC-1 at 400 V at ambient temperature 40 °C	22 A
rated value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	22 A
— up to 690 V at ambient temperature 60 °C rated value	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 24 V rated value	20 A 2.1 A
— at 220 V rated value	2.1 A 0.8 A
— at 440 V rated value	0.8 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 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 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A

— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	20 A
— at 110 V rated value	0.1 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	20 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 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 °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	
• 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
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC	
rated value	24 V
operating range factor control supply voltage rated	
value of magnet coil at DC	
 initial value 	0.85

• Unscalar value 1.69 • design of the surge suppressor with variator • design of the surge suppressor with variator • design of the surge suppressor 1.8 W • design of the surge suppressor 1.8 W • et DC 1.8 W • et DC 1.8 W • et DC 5 20 ms • et 20 V ratio value 5 20 ms • et 20 V ratio value 1. • et 20 V ratio value 10 A • et 20 V ratio value 2.8 • et 20 V ratio value 2.4 • et 20 V ratio value 3.A • et 20 V ratio value	• full-scale value	1.85		
desing power of magnet coil at DC 1.6 W holding power of magnet coil at DC 1.6 W e at DC 26 120 ms opening dolay 5 20 ms • at DC 5 20 ms • at DC 10 15 ms Control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit 1 Pumber of NC contects for auxiliary contacts 1 Instantaneous contact 10 A Operational current at AC-15 1 • at 500 V rated value 10 A operational current at AC-12 10 A • at 600 V rated value 10 A operational current at AC-12 10 A • at 600 V rated value				
Incling power of magnet coll at DC 1.6 W closing delay 25 120 ms • at DC 25 120 ms • opting delay 5 20 ms • at DC 5 20 ms • at So V contracts for auxinum 10 15 ms • at 300 V rated value 3 A • at 300 V rated value 3 A • at 300 V rated value 3 A • at 300 V rated value 6 A • at 300 V rated value 0 A • at 300 V rated value 0 A • at 220 V rated value 0 A • at 24 V rated value 0 A • at 24 V rated value 0 A <td></td> <td colspan="3"></td>				
closing delay • at DC 25 120 ms • et DC 5 20 ms • at DC 5 20 ms • at DC 10 15 ms control version of the switch operating mechanism Standard A1 - A2 Auxillary circuit 10 15 ms number of NO contacts for auxillary contacts instantaneous contact 1 operational current at AC-12 maximum 10 A operational current at AC-12 3A • at 300 V rated value 3A • at 500 V rated value 3A • at 500 V rated value 3A • at 100 V rated value 3A • at 22 V rated value 3A • at 100 V rated value 3A • at 80 V rated value 3A • at 80 V rated value				
		1.0 W		
opening delay 520 ms excling time 1015 ms control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit 1 number of NO contacts for auxiliary contacts 1 histantaneous contact 1 operational current at AC-12 maximum 10 A operational current at AC-15 1 eit 300 V rated value 2 A eit 300 V rated value 2 A eit 300 V rated value 6 A eit 300 V rated value 7 A eit 100 V rated value 7 A eit 100 V rated value 7 A eit 300 V rated value 7 A eit 300 V rated value 7 A eit 300 V rated value 7 A <td></td> <td>25 120 ms</td>		25 120 ms		
• e1 DC 5 20 ms arcing time 10 15 ms Control version of the switch oparating mechanism Statard A1 - A2 Anxiliary carcuit 10 15 ms pertablead current at AC-12 maximum 10 A oparational current at AC-15 1 • at 280 V rated value 2 A • at 800 V rated value 3 A • at 800 V rated value 3 A • at 800 V rated value 0 A • at 22 V rated value 0 A • at 800 V rated value 0 A • at 80 V rated value 0 A		25 120 1115		
arcting time 1015 ms Control version of the switch operating mechanism Standard A1 - A2 Availary circuit 1 number of NO contacts for auxiliary contacts 1 instantaneous contact 10A operational current at AC-12 maximum 10A operational current at AC-12 10A at 80 V rated value 6A at 80 V rated value 10A at 800 V rated value		5 20 ms		
Control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit I Jumber of NO contacts for auxiliary contacts 1 operational current at AC-12 maximum 10 A operational current at AC-15 I at 320 V rated value 3A at 500 V rated value 3A at 500 V rated value 1A operational current at DC-12 IA et 81 V rated value 6A et 81 V rated value 6A et 81 V rated value 6A et 81 V rated value 1A operational current at DC-12 IA et 81 V rated value 6A et 81 V rated value 1A operational current at DC-13 IA et 82 V rated value 1A operational current at 2C-13 IA et 82 V rated value 1A et 82 V rated value 0A et 82 V rated value 0A				
Audilary circuit 1 number of NO contacts for auxiliary contacts 1 operational current at AC-12 maximum 10 A operational current at AC-12 maximum 10 A • at 300 V rated value 10 A • at 300 V rated value 10 A • at 600 V rated value 2A • at 600 V rated value 1 • at 600 V rated value 1 • at 600 V rated value 10 A • at 600 V rated value 10 A • at 600 V rated value 6 A • at 600 V rated value 6 A • at 600 V rated value 2 A • at 600 V rated value 2 A • at 600 V rated value 2 A • at 220 V rated value 2 A • at 600 V rated value 2 A • at 600 V rated value 2 A • at 600 V rated value 0 A				
umber of NQ contacts for auxiliary contacts 1 instantaneous contact 10 A operational current at AC-12 maximum 10 A et at 30 V rated value 3 A et at 30 V rated value 3 A et 30 V rated value 3 A et 30 V rated value 3 A et 30 V rated value 6 A et 48 V rated value 6 A et 48 V rated value 6 A et 48 V rated value 6 A et 10 V rated value 6 A et 122 V rated value 0.15 A operational current at DC-13 0.15 A et 30 V rated value 0.15 A operational current at DC-13 10 A et 30 V rated value 0.3 A et 30 V rated value 0.3 A et 30 V rated value 0.3 A et 30 V rated value 0.1 A et				
Instantaneous contact persitional current at AC-16 at 230 V rated value 10 A operational current at AC-16 at 300 V rated value 2 A at 600 V rated value 2 A at 600 V rated value 2 A at 80 V rated value 3 A at 80 V rated value 4 A at 80 V rated value 4 A at 80 V rated value 5 A at 80 V rated value 4 A at 80 V rated value 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A		1		
operational current at AC-15 10 A • at 230 V rated value 10 A • at 600 V rated value 2 A • at 600 V rated value 2 A • at 600 V rated value 10 A • at 600 V rated value 10 A • at 600 V rated value 10 A • at 60 V rated value 10 A • at 80 V rated value 6 A • at 80 V rated value 6 A • at 80 V rated value 2 A • at 80 V rated value 2 A • at 80 V rated value 2 A • at 80 V rated value 10 A • at 20 V rated value 10 A • at 20 V rated value 0.15 A operational current at DC-13 0.15 A • at 60 V rated value 2 A • at 60 V rated value 2 A • at 10 V rated value 0.1 A context reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings 10 A • at 400 V rated value 0.1 A context reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) <td></td> <td></td>				
operational current at AC-15 10 A • at 230 V rated value 10 A • at 600 V rated value 2 A • at 600 V rated value 2 A • at 600 V rated value 10 A • at 80 V rated value 6 A • at 80 V rated value 6 A • at 80 V rated value 6 A • at 80 V rated value 2 A • at 80 V rated value 2 A • at 80 V rated value 2 A • at 20 V rated value 0.16 A • at 20 V rated value 0.16 A • at 20 V rated value 2 A • at 60 V rated value 2 A • at 60 V rated value 2 A • at 60 V rated value 0.1 A contect reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) ULUCSA ratings 14 A • at 400 V rated value 11 A • at 400 V rated value 11 A • at 400 V rated value <		10 A		
 et 400 V rated value 3 A et 500 V rated value 2 A et 500 V rated value 1 A operational current at DC-12 et 24 V rated value 6 A et 48 V rated value 6 A et 40 V rated value 6 A et 30 V rated value 7 A et 20 V rated value 6 A et 30 V rated value 7 A et 22 V rated value 7 A et 22 V rated value 7 A et 22 V rated value 9 A et 22 V rated value 1 A et 22 V rated value 1 A et 24 V rated value 0 A et 24 V rated value 2 A et 30 V rated value 1 A et 30 V rated value 1 A et 320 V rated value 1 A et 320 V rated value 0 A et 480 V rated value 0 A et 480 V rated value 0 A et 300 V rated value 1 faulty switching per 100 million (17 V, 1 mA) U/CSA ratings full-ad current (FLA) for 3-phase AC motor 1 faulty switching per 100 million (17 V, 1 mA) U/CSA ratings for signile-phase AC motor 1 faulty switching per 100 million (17 V, 1 mA) U/CSA rated value 1 faulty switching per 100 million (17 V, 1 mA) U/CSA rated value 1 faulty switching per 100 million (17 V, 1 mA) U/CSA rated value 1 faulty switching per 100 million (17 V, 1 mA) U/CSA rated value 1 faulty switching per 100 million (17 V, 1 mA) <li< td=""><td>•</td><td>_</td></li<>	•	_		
• at 500 V rated value 2 A • at 690 V rated value 1 A operational current at DC-12 10 A • at 42 V rated value 0 A • at 43 V rated value 6 A • at 100 V rated value 6 A • at 100 V rated value 3 A • at 22 V rated value 1 A • at 22 V rated value 0 A • at 24 V rated value 2 A • at 25 V rated value 0 A • at 26 V rated value 0 A • at 20 V rated value 0 A • at 200 V rated value 0 A • at 4	 at 230 V rated value 	10 A		
• at 690 V rated value 1 A operational current at DC-12 - • at 44 V rated value 0 A • at 450 V rated value 6 A • at 60 V rated value 3 A • at 125 V rated value 2 A • at 200 V rated value 0.15 A operational current at DC-13 - • at 600 V rated value 0.15 A operational current at DC-13 - • at 600 V rated value 0.15 A operational current at DC-13 - • at 60 V rated value 2 A • at 60 V rated value 2 A • at 60 V rated value 0.4 A • at 600 V rated value 0.4 A • at 600 V rated value 0.4 A • at 600 V rated value 0.4 A • at 800 V rated value 1 A • at 800 V rated value 1 A • at 800 V rated value 1 A • at 800 V rated value 0.5 hp - at 200 V rated value 0.5 hp - at 200/208 V ra	 at 400 V rated value 	3 A		
operational current at DC-12 10 A • at 24 V rated value 10 A • at 49 V rated value 6 A • at 60 V rated value 6 A • at 100 V rated value 2 A • at 220 V rated value 2 A • at 200 V rated value 0.15 A operational current at DC-13 10 A • at 24 V rated value 0.15 A operational current at DC-13 10 A • at 24 V rated value 2 A • at 100 V rated value 2 A • at 24 V rated value 0.9 A • at 250 V rated value 0.9 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-dad current (FLA) for 3-phase AC motor 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings 11 A vielded mechanical performance [hp] 0.5 hp • for 3-phase AC motor - - at 200/200 V rated value 3 hp - at 200/200 V rated value 3 hp - at 200/200 V rated value 10 hp contact rating of auxiliary	 at 500 V rated value 	2 A		
operational current at DC-12 10 A • at 24 V rated value 10 A • at 49 V rated value 6 A • at 60 V rated value 6 A • at 100 V rated value 2 A • at 220 V rated value 2 A • at 200 V rated value 0.15 A operational current at DC-13 10 A • at 24 V rated value 0.15 A operational current at DC-13 10 A • at 24 V rated value 2 A • at 100 V rated value 2 A • at 24 V rated value 0.9 A • at 250 V rated value 0.9 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-dad current (FLA) for 3-phase AC motor 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings 11 A vielded mechanical performance [hp] 0.5 hp • for 3-phase AC motor - - at 200/200 V rated value 3 hp - at 200/200 V rated value 3 hp - at 200/200 V rated value 10 hp contact rating of auxiliary				
• at 24 V rated value 10 A • at 45 V rated value 6 A • at 10 V rated value 6 A • at 110 V rated value 3 A • at 125 V rated value 2 A • at 260 V rated value 0.15 A operational current at DC-13 0.15 A • at 620 V rated value 1 A • at 64 V rated value 2 A • at 64 V rated value 2 A • at 64 V rated value 2 A • at 60 V rated value 2 A • at 61 V rated value 2 A • at 60 V rated value 2 A • at 60 V rated value 2 A • at 60 V rated value 3 A • at 125 V rated value 0.3 A • at 220 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 11 A • at 600 V rated value 11 A • at 600 V rated value 11 A • at 600 V rated value 12 b • for single-phase AC motor 14 A • at 600 V rated value 14 A • at 200 V rated value 15 hp • at 600 V rated value 15 hp • at 600 V rated value 16 ra shp • at 600 V rated value <td></td> <td></td>				
• at 48 V rated value 6 A • at 60 V rated value 6 A • at 100 V rated value 3 A • at 125 V rated value 2 A • at 200 V rated value 1 A • at 200 V rated value 0.15 A operational current at DC-13 0 A • at 40 V rated value 10 A • at 40 V rated value 2 A • at 60 V rated value 2 A • at 10 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 11 A full-load current (FLA) for 3-phase AC motor 1 A • at 600 V rated value 11 A • at 600 V rated value 11 A • at 600 V rated value 1 A • at 600 V rated value 2 hp • for 3-phase AC motor - - at 200/200 V rated value 3 hp - at 460/400 V rate	•	10 A		
• at 60 V rated value 6 A • at 125 V rated value 3 A • at 220 V rated value 1 A • at 220 V rated value 1 A • at 600 V rated value 0.15 A operational current at DC-13 • • at 24 V rated value 10 A • at 40 V rated value 2 A • at 600 V rated value 2 A • at 10 V rated value 0.9 A • at 22 V rated value 0.9 A • at 220 V rated value 0.1 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 11 A • at 600 V rated value 2 hp • for single-phase AC motor - - at 200/208 V rated value 2 hp • for 3-phase AC motor 3 hp - at 200/208 V rated value 3 hp - at 200/208 V rated value 7.5 hp - at 60/408 V rated va				
• 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 24 V rated value 0.15 A operational current at DC-13 0 • at 24 V rated value 2 A • at 40 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 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 11 A full-load current (FLA) for 3-phase AC motor 1 faulty switching per 100 million (17 V, 1 mA) ulcest at 80 V rated value 11 A • at 480 V rated value 11 A • at 480 V rated value 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings 11 A • at 480 V rated value 1 faulty switching per 100 million (17 V, 1 mA) ulcest at 480 V rated value 1 faulty switching per 100 million (17 V, 1 mA) ulcest at 480 V rated value 0.5 hp • at 480 V rated value 0.5 hp				
• 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 A • at 24 V rated value 10 A • at 48 V rated value 2 A • at 100 V rated value 2 A • at 100 V rated value 2 A • at 110 V rated value 2 A • at 120 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) U/L/CSA ratings 11 A full-load current (FLA) for 3-phase AC motor 1 1 A • at 480 V rated value 11 A yielded mechanical performance [hp] 1 A • for single-phase AC motor 0.5 hp - at 200/208 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 200/208 V rated value 7.5 hp - at 450/480 V rated value 7.5 hp - at 200/208 V rated value 7.5 hp - at 450/480 V rated value 7.6 hp - at 200/208 V rated value 7.6 hp - at 450/480 V rated value 7.6 hp -				
• at 220 V rated value 1 A • at 600 V rated value 0.15 A operational current at DC-13 0 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 125 V rated value 0.3 A • at 200 V rated value 0.3 A • at 60 V rated value 0.14 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 1 faulty switching per 100 million (17 V, 1 mA) ulc/CSA ratings 11 A vielded mechanical performance [hp] • for single-phase AC motor • at 300 V rated value 11 A • at 200 V rated value 2 hp • for 3-phase AC motor - - at 200/208 V rated value 3 hp - at 220/208 V rated value 3 hp - at 460/480 V rated value 10 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection of the main circuit G: 50A (690V,100kA), aM: 16A (690V,100kA), BS88: 35A (415V,80kA)<				
• at 600 V rated value 0.15 A operational current at DC-13 10 A • at 24 V rated value 2 A • at 48 V rated value 2 A • at 10 V rated value 2 A • at 110 V rated value 0.9 A • at 220 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) U/CSA ratings 11 A full-lead current (FLA) for 3-phase AC motor 11 A • at 600 V rated value 2 hp • for single-phase AC motor - - at 110/120 V rated value 2 hp • for 3-phase AC motor - - at 2200/280 V rated value 3 hp - at 220/280 V rated value 3 hp - at 220/280 V rated value 3 hp - at 460/480 V rated value 7.5 hp - at 460/480 V rated value 7.5 hp - at 4575/600 V rated value 7.5 hp				
operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 10 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 220 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 • at 600 V rated value • at 11/1/20 V rated value • at 11/1/20 V rated value • at 11/1/20 V rated value • at 200/208 V rated value • at 200/208 V rated value • at 200/208 V rated value • at 40/480 V rated value • at 40/480 V rated value • at 40/480 V rated value • at 200/208 V rated value • at 40/480 V rated value • at 200/208 V rated value				
• at 24 V rated value 10 A • at 48 V rated value 2 A • at 60 V rated value 1 A • at 110 V rated value 1 A • at 125 V rated value 0.9 A • at 200 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 11 A full-load current (FLA) for 3-phase AC motor 1 1 A • at 480 V rated value 11 A • at 480 V rated value 11 A • at 480 V rated value 1 A • at 200 V rated value 0.5 hp - at 200 V rated value 2 hp • for 3-phase AC motor - - at 200/200 V rated value 3 hp - at 200/200 V rated value 3 hp - at 20/203 V rated value 3 hp - at 20/203 V rated value 7.5 hp - at 450/480 V rated value 7.6 hp - at 450/480 V rated value 7.6 hp				
• at 48 V rated value 2 A • at 60 V rated value 2 A • at 110 V rated value 1 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) UL/CSA ratings 11 A 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 • at 600 V rated value 11 A • at 600 V rated value 10 P • or single-phase AC motor - - at 200/208 V rated value 2 hp • for 3-phase AC motor - - at 200/208 V rated value 3 hp - at 200/208 V rated value 3 hp - at 200/208 V rated value 10 hp contact rating of auxiliary contacts according to UL A600 / Q600 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) - for short-circuit protection of the main circuit - <	•	10 A		
• at 60 V rated value 2 A • at 110 V rated value 1 A • at 125 V rated value 0.9 A • at 220 V rated value 0.3 A • at 600 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings 1 full-load current (FLA) for 3-phase AC motor • • at 480 V rated value 11 A • at 600 V rated value 11 A • at 200 V rated value 11 A • at 200 V rated value 1 faulty switching per 100 million (17 V, 1 mA) vielded mechanical performance [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 55/600 V rated value 7.5 hp - at 450/480 V rated value 10 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection of the main circuit <t< td=""><td></td><td></td></t<>				
eit 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 400 V rated value11 A• at 600 V rated value0.5 hp- at 110/120 V rated value0.5 hp- at 200/208 V rated value3 hp- at 200/208 V rated value7.5 hp- at 460/480 V rated value7.6 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 protectiondesign of the fuse link• for short-circuit protection of the main circuit- with type of assignment 2 requiredgG: 50A (690V,100kA), aM: 16A (690V,100kA), BS88: 35A (415V,80kA)gG: 10 A (500 V, 1 kA)e for short-circuit protection of the auxiliary switchgG: 10 A (500 V, 1 kA)				
• 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 11 A 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 • at 600 V rated value 11 A vielded 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 220/230 V rated value 3 hp - at 220/230 V rated value 3 hp - at 220/230 V rated value 7.5 hp - at 575/600 V rated value 7.6 hp - at 575/600 V rated value 10 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection g6: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) - with type of assignment 2 required gG: 50A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80KA) - with type of assignment				
• 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				
• 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 11 A full-load current (FLA) for 3-phase AC motor at 480 V rated value 11 A at 600 V rated value 11 A i of 00 V rated value 11 A vielded mechanical performance [hp] 0.5 hp i for single-phase AC motor 0.5 hp - at 10/120 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 200/208 V rated value 10 hp - at 200/208 V rated value 10 hp - at 575/600 V rated value 7.5 hp - at 575/600 V rated value 10 hp contact rating of auxiliary contacts according to UL A6000 / Q600 Short-circuit protection gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) - with type of coordination 1 required gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 20A (415V, 80KA) - with type of assignment 2 required gG: 10 A (500 V, 1 kA) - with type of assignment 2 required gG: 1				
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] 11 A • for single-phase AC motor 0.5 hp - 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 220/230 V rated value 7.5 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 gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) - 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: 10 A (500 V, 1 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) <td></td> <td></td>				
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 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 - at 230 V rated value - at 200/208 V rated value - at 400/480 V rated value - at 457/600 V rated value - at 575/600 V rated value 10 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of assignment 2 required gG: 20A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA) e for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) gG: 10 A (500 V, 1 kA)				
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • 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 10 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 200/208 V rated value - at 200/208 V rated value 3 hp - at 275/600 V rated value 10 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required gG: 50A (690V,100kA), aM: 16A (690V, 100kA), BS88: 35A (415V,80kA) gG: 10 A (500 V, 1 kA) required		Trauty switching per 100 million (17 V, T MA)		
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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 3 hp - at 200/208 V rated value 3 hp - at 220/230 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 4esign of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) 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)				
 for single-phase AC motor at 110/120 V rated value bp at 230 V rated value bp for 3-phase AC motor at 200/208 V rated value bp at 200/208 V rated value bp at 220/230 V rated value bp at 220/230 V rated value bp at 220/230 V rated value bp at 460/480 V rated value cat 460/480 V rated value contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) of or short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) 		11 A		
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- at 200/208 V rated value3 hp- at 220/230 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 protectiondesign of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 requiredgG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)• for short-circuit protection of the auxiliary switch requiredgG: 10 A (500 V, 1 kA)		2 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 protectionGesign of the fuse link• for short-circuit protection of the main circuitgG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)- with type of coordination 1 requiredgG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)• for short-circuit protection of the auxiliary switch requiredgG: 10 A (500 V, 1 kA)	•			
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— at 575/600 V rated value10 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectiondesign of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 requiredgG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) • gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)• for short-circuit protection of the auxiliary switch requiredgG: 10 A (500 V, 1 kA)				
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Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions				
design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required gG: 20A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) Installation/ mounting/ dimensions		A600 / Q600		
for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	Short-circuit protection			
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	design of the fuse link			
— 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 gG: 20A (690V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)	 for short-circuit protection of the main circuit 			
• for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions				
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions G: 10 A (500 V, 1 kA)	 — with type of assignment 2 required 			
required Installation/ mounting/ dimensions		,		
Installation/ mounting/ dimensions		gG: 10 A (500 V, 1 kA)		
+/-180° rotation possible on vertical mounting surface; can be tilted				
		+/- 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 standard mounting rail		
	according to DIN EN 60715		
side-by-side mounting	Yes		
height	70 mm		
width	45 mm		
depth	121 mm		
 required spacing with side-by-side mounting 			
 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 mm²)		
 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)		
at 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 mm²		
 finely stranded without 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 mm ²		
finely stranded without core end processing	0.5 2.5 mm²		
type of connectable conductor cross-sections			
for auxiliary contacts			
— solid or stranded	$2x (0.5 \dots 4 \text{ mm}^2)$		
 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)		
at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross	2x (20 12)		
AWG number as coded connectable conductor cross section			
for main contacts	20 12		
 for auxiliary contacts 	20 12		
Safety related data			
product function			
 mirror contact according to IEC 60947-4-1 	No		
B10 value with high demand rate according to SN 31920	1 000 000		

proportion of dange	erous failures				
 with low deman 	nd rate according to SN	31920	40 %		
	and rate according to SN		73 %		
failure rate [FIT] with 31920	failure rate [FIT] with low demand rate according to SN 31920				
T1 value for proof tes IEC 61508	st interval or service life	according to	20 у		
protection class IP (60529	on the front according	to IEC	IP20		
touch protection on	the front according to	DIEC 60529	finger-safe, for vertical contact from the front		
suitability for use					
 safety-related s 	switching OFF		Yes		
Certificates/ approval	ls				
General Product Ap	oproval				
() Startes Startes		<u>Confirmatic</u>		<u>KC</u>	EHC
EMC	Functional Safety/Safety of Machinery	Declaration c	of Conformity	Test Certificates	
RCM	<u>Type Examination</u> <u>Certificate</u>	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	Special Test Certific- ate
Marine / Shipping		2.2		æ	
ABS	B U R E A U VERITAS		Lloyd's Register uts	PRS	RINA
Marine / Shipping	other		Dangerous Good		
RMRS RMRS	<u>Confirmation</u>		<u>Transport Informa-</u> <u>tion</u>		
https://www.siemens. Industry Mall (Onlin https://mall.industry.s Cax online generato http://support.automa Service&Support (M https://support.indust Image database (pro http://www.automatio Characteristic: Tripp https://support.indust Further characterist	e ordering system) siemens.com/mall/en/en or ation.siemens.com/WW// lanuals, Certificates, C ry.siemens.com/cs/ww// oduct images, 2D dime in.siemens.com/bilddb/c ping characteristics, I ² ry.siemens.com/cs/ww// tics (e.g. electrical end	/Catalog/product CAXorder/defaul Characteristics, en/ps/3RT2017-2 ension drawinge ax_de.aspx?mlfl t, Let-through c en/ps/3RT2017-2 lurance, switchi	?mlfb=3RT2017-2WB41 tt.aspx?lang=en&mlfb=3RT20 FAQs,) 2WB41 s, 3D models, device circuit b=3RT2017-2WB41⟨=en current 2WB41/char	diagrams, EPLAN ma	
last modified:			6/2/2022 🖸		
3RT20172WB41				Subject to	change without notice

7/8/2022