SIEMENS

Data sheet 3RT2015-2BB42



Power contactor, AC-3 7 A, 3 kW / 400 V 1 NC, 24 V DC 3-pole, Size S00 Spring-type terminal

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	1.2 W
• per pole	0.4 W
power loss [W] for rated value of the current without load current share typical	4 W
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 acc. 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 (switching 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 acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.10.2009 00:00:00
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature during operation	-25 +60 °C
ambient temperature during storage	-55 +80 °C
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

operational current	40.4
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	18 A
• at AC-1	
 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-4 at 400 V rated value 	6.5 A
 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 • at AC-6a 	3.6 A
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 mm²
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	45.4
— at 24 V rated value	15 A
— at 110 V rated value	1.5 A
— at 220 V rated value — at 440 V rated value	0.6 A 0.42 A
— at 600 V rated value	0.42 A
with 2 current paths in series at DC-1	U.T.E. / L
— at 24 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 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
operational current	
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	15 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	15 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 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
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	
• up to 230 V for current peak value n=20 rated value	1.5 kV·A
• up to 400 V for current peak value n=20 rated value	2.7 kV·A
up to 500 V for current peak value n=20 rated value	3.3 kV·A
• up to 690 V for current peak value n=20 rated value	4.3 kV·A
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	1 kV·A
• up to 400 V for current peak value n=30 rated value	1.8 kV·A
• up to 500 V for current peak value n=30 rated value	2.2 kV·A
 up to 690 V for current peak value n=30 rated value 	2.9 kV·A
short-time withstand current in cold operating state	
up to 40 °C	400 A 11
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	4 000 4 11
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h
• at AC-3 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	0.8
• full-scale value	1.1
closing power of magnet coil at DC	4 W
holding power of magnet coil at DC	4 W
closing delay	22 422
• at DC	30 100 ms
opening delay	7. 40
• at DC	7 13 ms
arcing time	10 15 ms

Auxiliary circuit instantaneous contact operational current at AC-15 al 200 V rated value at 400 V rated value at 500 V rated value at 400 V rated value at 400 V rated value at 400 V rated value at 500 V rated value at 500 V rated value at 400 V rated value at 500 V rated value at 600 V rated value at	control version of the switch operating mechanism	Standard A1 - A2
number of NC contexts for auxiliary contacts instantaneous contact operational current at AC-15 maximum		
Instantaneous contact generational current at AC-15 at 23 V rated value 10 A 2 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A		1
Operational current at AC-15	instantaneous contact	
at 230 V rated value	·	10 A
at 400 V rated value	•	
a ti 500 V rated value		
• at 600 V rated value	 at 400 V rated value 	
0	 at 500 V rated value 	
a ta 24 V rated value	at 690 V rated value	1 A
• at 48 V rated value 6 A • at 160 V rated value 3 A • at 125 V rated value 1 A • at 125 V rated value 2 A • at 125 V rated value 1 A • at 125 V rated value 0.15 A operational current at DC-13 • at 24 V rated value 2 A • at 80 V rated value 2 A • at 125 V rated value 2 A • at 125 V rated value 3 A • at 125 V rated value 4 A • at 125 V rated value 5 A • at 125 V rated value 1 A • at 125 V rated value 1 A • at 125 V rated value 0.9 A • at 125 V rated value 0.3 A • at 125 V rated value 0.1 A • at 125 V rated value 0.2 A • at 125 V rated value 0.7 B h • for 3-phase AC motor 0.2 B h • at 200/208 V rated value 0.7 B h • for 3-phase AC motor 0.2 B h • at 200/208 V rated value 0.7 B h • for 3-phase AC motor 0.2 B h • at 200/208 V rated value 0.7 B h • for 3-phase AC motor 0.2 B h • at 200/208 V rated value 0.7 B h • for 3-phase AC motor 0.2 B h • at 200/208 V rated value 0.7 B h • for 3-phase AC motor 0.2 B h • at 200/208 V rated value 0.7 B h • for 3-phase AC motor 0.2 B h • for 3-phase AC mot	operational current at DC-12	
• at 60 V rated value	 at 24 V rated value 	10 A
at 110 V rated value	 at 48 V rated value 	6 A
at 125 V rated value	 at 60 V rated value 	6 A
* at 220 V rated value	 at 110 V rated value 	3 A
• at 800 V rated value operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 10 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 80 V rated value • at 220 V rated value • at 80 V rated value • at 800 V rated value • at 800 V rated value • at 800 V rated value contact reliability of auxiliary contacts IL/GSA 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 • for single-phase AC motor • at 100 / rated value • for 3-phase AC motor • at 200 / rated value • for 3-phase AC motor • at 200 / rated value • for 3-phase AC motor • at 200 / rated value • for 3-phase AC motor • at 200 / rated value • for 3-phase AC motor • at 200 / rated value • for 3-phase AC motor • at 200 / rated value • for 3-phase AC motor • at 200 / rated value • for 3-phase AC motor • at 200 / rated value • for 3-phase AC motor • at 200 / rated value • for 3-phase AC motor • at 200 / rated value • for 3-phase AC motor • at 480 / rated value • for 3-phase AC motor • at 200 / rated value • for 3-phase AC motor • at 200 / rated value • for 3-phase AC motor • at 200 / rated value • for 3-phase AC motor • at 200 / rated value • for 3-phase AC motor • at 200 / rated value • for 3-phase AC motor • at 200 / rated value • for 3-phase AC motor • at 200 / rated value • for 3-phase AC motor • at 200 / rated value • for 3-phase AC motor • at 200 / rated value • for 3-phase AC motor • at 200 / rated value • for 3-phase AC motor • at 200 / rated value • for 3-phase AC motor • at 200 / rated value • for 3-phase AC motor • at 200 / rated value • for 3-phase AC motor • at 200 / rated value • for 3-phase AC motor • at 200 / rated value • for 3-phase AC motor • for 4-for 3-phase AC motor • for 3-phase AC motor • for 4-for 3-phase AC motor • for 4-for 3-phase AC motor • for 4-for 3-phase AC motor • for 6-for 3-phase AC m	 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 10 V rated value • at 110 V rated value • at 110 V rated value • at 122 V rated value • at 220 V rated value • at 60 V rated value • at 20 V rated value • at 70 Parent value • at 70 Parent value • at 20 V rated value • at 460/480 V rated value • at 460/480 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 460/480 V rated value • at 757/600 V rated value • with type of coordination 1 required • with type of assignment 2 required • with type of assignment 2 required • with type of assignment 2 required • with type of sasignment 2 required • for short-circuit protection of the main circuit - with type of coordination 1 required • with type of sasignment 2 required • for short-circuit protection of the auxiliary switch required Installation mounting / dimensions mounting position forward and backward by +/- 22.5° on vertical mounting surface; can be titled forward and backward by +/- 22.5° on vertical mounting surface sceew and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 verticuted the formal of the 45 mm depth 45 mm	 at 220 V rated value 	1 A
at 24 V rated value at 48 V rated value 2 A at 60 V rated value 2 A at 10 V rated value 2 A at 110 V rated value 3 1 12 V rated value 3 1 25 V rated value 3 1 25 V rated value 3 1 25 V rated value 4 1 20 V rated value 5 1 5 V rated value 6 1 5 V rated value 9 1 1 A at 800 V rated value 9 1 1 Faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor 4 1 480 V rated value 8 1 680 V rated value 9 1 600 V rated value 9 1 601 V rated value 9 1 5 hp 4 1 5 hp 4 1 5 hp 4 1 5 hp 5 1 5 hp 6 1 5 hp 7	at 600 V rated value	0.15 A
at 48 V rated value at 60 V rated value 2 A at 110 V rated value 1 A at 125 V rated value 2 A at 125 V rated value 3 A at 220 V rated value 0 3 A at 800 V rated value 1 A contact reliability of auxiliary contacts UL/GSA ratings full-load current (FLA) for 3-phase AC motor at 800 V rated value 4 A 5 A 6 A 6 A 6 A	operational current at DC-13	
at 160 V rated value at 175 V rated value 0 1 A at 125 V rated value 0 3 A at 600 V rated value 0 3 A at 600 V rated value 0 3 A at 600 V rated value 0 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 - at 230 V rated value - at 200/208 V rated value - at 460/480 V rated value - at 460/480 V rated value - at 575/600 V rated value - at 600 V rated value - at 757/600 V rated value - at 600 V rated value - at 757/600 V rated value - at 757/600 V rated value - at 757/600 V rated value - at 600 V rated value - at 757/600 V rated value - at 600 V rated value - at 757/600 V rated value - at 600 V rated value - at	at 24 V rated value	10 A
at 110 V rated value at 125 V rated value at 220 V rated value 0.9 A at 220 V rated value 0.1.1 A contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 80 V rated value at 80 V rated value at 80 V rated value at 110/120 V rated value at 110/120 V rated value before an 110/120 V rated value at 230 V rated value before an 1200/208 V rated value at 200/208 V rated value at 480/480 V rated value before an 125/5/600 V rated value at 480/480 V rated value before an 125/5/600 V rated value at 480/480 V rated value at 480/480 V rated value before an 1575/600 V rated value at 575/600 V rated value before an 1575/600 V rated value at 575/600 V rated value before an 1575/600 V rated val	at 48 V rated value	2 A
at 125 V rated value at 220 V rated value 0.3 A contact reliability of auxiliary contacts 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] of or single-phase AC motor at 1230 V rated value 0.25 hp at 1201 V rated value 0.75 hp of or 3-phase AC motor at 2201/230 V rated value 2 hp at 2201/230 V rated value 2 hp at 460/480 V rated value 3 hp at 575/600 V rated value 3 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link of or short-circuit protection of the main circuit with type of assignment 2 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required required Installation/ mounting/ dimensions mounting position 4-/180° rotation possible on vertical mounting surface; can be tilled forward and backward by +/- 22.5° on vertical mounting rall according to DIN EN 60715 ves bight 70 mm width depth 73 mm	at 60 V rated value	2 A
at 220 V rated value at 600 V rated value 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 at 600 V rated value 5 for single-phase AC motor — at 110/120 V rated value — at 220 V rated value **For 3-phase AC motor — at 1200/208 V rated value — at 220/208 V rated value — at 220/208 V rated value — at 4575/600 V rated value — at 4575/600 V rated value — at 4575/600 V rated value — at 575/600 V rated value **Or short-circuit protection **design of the fuse link **Or short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required **Or short-circuit protection of the auxiliary switch required **Or short-circuit protection of the auxil	● at 110 V rated value	1 A
at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 6.1 A yielded mechanical performance [hp] for 3-phase AC motor - at 110/120 V rated value - at 230 V rated value - at 220/230 V rated value - at 460/480 V rated value - at 460/480 V rated value - at 575/600 V rated value - at 575/600 V rated value - at with type of assignment 2 required - with type of coordination 1 required - with type of assignment 2 required - with type of assignment 2 required - with type of assignment 2 required for short-circuit protection of the auxiliary switch required required Installation/mounting/ dimensions mounting position e side-by-side mounting yes 1 faulty switching per 100 million (17 V, 1 mA) 1 faulty switching per 100 million (17 V, 1 mA) 1 faulty switching per 100 million (17 V, 1 mA) 1 faulty switching per 100 million (17 V, 1 mA) 1 faulty switching per 100 million (17 V, 1 mA) 1 faulty switching per 100 million (17 V, 1 mA) 1 faulty switching per 100 million (17 V, 1 mA) 4.8 A 6.1 A 4.8 A 6.1 A 4.8 A 6.1 A 4.8 A 6.1 A 5.1 A 5.2 bp 0.75 hp 0.25 hp 0.75 hp 1.5 hp 2 height 4.8 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1 A 6.1	● at 125 V rated value	0.9 A
contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 4480 V rated value • at 600 V rated value • at 600 V rated value • at 100 V rated value • at 110 / 120 V rated value • at 230 V rated value • o. 25 hp • for 3-phase AC motor — at 230 V rated value • o. 75 hp • for 3-phase AC motor — at 200/208 V rated value • at 220/230 V rated value — at 2575/600 V rated value — at 460/480 V rated value — at 4575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 600 / 0600 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 coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position 1 faulty switching per 100 million (17 V, 1 mA) 4.8 A 6.1 A 4.8 A 6.1 A 6.1 A 9.25 hp 9.75 hp	 at 220 V rated value 	0.3 A
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 • at 100/120 V rated value • at 230 V rated value • for 3-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 2200/208 V rated value • at 220/230 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — with 1ype of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of assignment 2 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required required installation mounting/ dimensions mounting position #/-180* rotation possible on vertical mounting surface; can be tilted forward and backward by #/- 22.5° on vertical mounting rail according to DIN EN 60715 • side-by-side mounting #/5 mm depth 70 mm width 45 mm depth	● at 600 V rated value	0.1 A
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • for single-phase AC motor — at 110/120 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • at 260/480 V rated value — at 4576/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — with type of coordination 1 required — with type of coordination 1 required — with type of assignment 2 required installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting width 4.8 A 6.1 A 4.5 hp 4.5 hp 4.6 A00 / Q600 Shop Julia And Julia An	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
at 480 V rated value at 6.1 A eat 600 V rated value 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 200/208 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 4575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — with type of coordination 1 required — with type of coordination 1 required — with type of coordination 1 required — with type of assignment 2 required gG: 20A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 10 A (500 V, 1 kA) required installation mounting/ dimensions mounting position fastening method e side-by-side mounting yes 4.8 A 6.1 A 6.2 b 6.2 b 6.3 b 6.3 b 6.4 b 6.1 A 6.5 b 6.4 b 6.1 A 6.5 b	UL/CSA ratings	
o at 600 V rated value pielded mechanical performance [hp] o for single-phase AC motor — at 110/120 V rated value — at 230 V rated value — at 200/208 V rated value — at 220/230 V rated value — at 220/230 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 600/480 V rated value — at 600/480 V rated value — at 757/600 V rated value — at 75/5/600 V rated value — at 600/480 V rated value — at 600/480 V rated value — at 75/5/600 V rated value — at 75/5/600 V rated value — at 600/480 V rated value — at 75/5/600 V rated value — at 600/480 V rated value — at 75/5/600 V rated value — at 600/480 V rated value — at 600/480 V rated value — at 75/5/600 V rated value — at 600/480 V rated value — at 600/480 V rated value — at 600/280 V rated value — at 600/480 V rated value — at 600/480 V rated value — at 600/480 V rated value — at 600/280 V rated value — at 600/480 V rated value — at 600/280 V rated value — at 600/480 V rated value — at 600/280 V rated value — at 600/2	full-load current (FLA) for 3-phase AC motor	
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 220/230 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — with grotection 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 — with type of assignment 2 required gG: 35A (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) 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 width 45 mm 73 mm	at 480 V rated value	4.8 A
for single-phase AC motor — at 110/120 V rated value — at 230 V rated value — at 230 V rated value • for 3-phase AC motor — at 220/230 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — side value — at 575/600 V rated value — with type of coordination 1 required — with type of coordination 1 required — with type of assignment 2 required — with type of assignment 2 required — for short-circuit protection of the auxiliary switch required 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 screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 ##-/-180" rotation possible on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 ##-/	at 600 V rated value	6.1 A
- at 110/120 V rated value - 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 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 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 9G: 20A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) 80KA) • for short-circuit protection of the auxiliary switch required required 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 screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 • side-by-side mounting width 45 mm depth 70 mm	yielded mechanical performance [hp]	
 at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value bp at 575/600 V rated value bp contact rating of auxiliary contacts according to UL 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 for short-circuit protection of the auxiliary switch required soft short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch 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) gG: 10 A (500 V, 1 kA) required Installation/ mounting/ dimensions mounting position forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes height width 45 mm depth 	for single-phase AC motor	
• for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 575/600 V rated value — ot value — at 575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — ot value — at 575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — ot value value — ot value value — ot value value — ot value value — of short-circuit protection of the main circuit — with type of coordination 1 required — with type of coordination 1 required — with type of assignment 2 required — of short-circuit protection of the auxiliary switch required — of short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position — t/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 — value v	— at 110/120 V rated value	0.25 hp
- at 200/208 V rated value - at 220/230 V rated value - at 460/480 V rated value - at 4575/600 V rated value - at 575/600 V rated value - at 675/600 V rated value - at 460/480 V rated value - at 675/600 V at 600 V (690V,100kA), am: 20A	— at 230 V rated value	0.75 hp
- at 200/208 V rated value - at 220/230 V rated value - at 460/480 V rated value - at 4575/600 V rated value - at 575/600 V rated value - at 675/600 V rated value - at 460/480 V rated value - at 675/600 V at 600 V (690V,100kA), am: 20A	• for 3-phase AC motor	
- at 460/480 V rated value - at 575/600 V rated value contact rating of auxiliary contacts according to UL 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 mounting position fastening method • side-by-side mounting height width depth A600 / Q600		1.5 hp
- at 460/480 V rated value - at 575/600 V rated value contact rating of auxiliary contacts according to UL 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 mounting position fastening method • side-by-side mounting height width depth A600 / Q600	— at 220/230 V rated value	·
- at 575/600 V rated value contact rating of auxiliary contacts according to UL 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 mounting position fastening method • side-by-side mounting height width depth 5 hp A600 / Q600 5 hp A600 / Q600 5 hp A600 / Q600 GG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) gG: 10 A (500 V, 1 kA) required - 4/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes height 70 mm width depth		
contact rating of auxiliary contacts according to UL 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 mounting position #/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 • side-by-side mounting width depth A600 / Q600 A600 / Q600 A600 / Q600 GG: 35A (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) required +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting rail according to DIN EN 60715 Yes height 70 mm 45 mm		·
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 mounting position #/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 • side-by-side mounting height width depth #/- 33 mm		
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required gG: 35A (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 +/-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 73 mm		
 for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required — of or short-circuit protection of the auxiliary switch required — gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) — of or short-circuit protection of the auxiliary switch required — with type of assignment 2 required — with type of coordination 1 required — with type of coordination 2 required — with type of assignment 2 required — with type of assignment 2 required — with type of assignment 2 required — with type of coordination 1 required — with type of assignment 2 required — with type of assignment		
- with type of coordination 1 required - with type of assignment 2 required - of reshort-circuit protection of the auxiliary switch required - of required -	3	
— with type of assignment 2 required of gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) of or short-circuit protection of the auxiliary switch required 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 standard mounting rail according to DIN EN 60715 of side-by-side mounting Yes height 70 mm width 45 mm depth		αG: 35Δ (690\/ 100kΔ), 2M: 20Δ (600\/ 100kΔ), BS99: 25Δ (415\/ 20kΔ)
• for short-circuit protection of the auxiliary switch required 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 standard mounting rail according to DIN EN 60715 side-by-side mounting Yes height 70 mm width 45 mm depth		
 for short-circuit protection of the auxiliary switch required 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 standard mounting rail according to DIN EN 60715 side-by-side mounting height 70 mm width 45 mm depth 73 mm 	— with type of assignment 2 required	
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 standard mounting rail according to DIN EN 60715 • side-by-side mounting Yes height 70 mm width 45 mm depth 73 mm		,
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 standard mounting rail according to DIN EN 60715 ◆ side-by-side mounting Yes height 70 mm width 45 mm depth 73 mm	·	
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 73 mm		
according to DIN EN 60715 Yes height 70 mm width 45 mm depth 73 mm	mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
height 70 mm width 45 mm depth 73 mm	fastening method	
width 45 mm depth 73 mm	side-by-side mounting	Yes
depth 73 mm	height	70 mm
· · · · · · · · · · · · · · · · · · ·		45 mm
required spacing	depth	73 mm
	required spacing	

with side-by-side mounting	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
 for grounded parts 	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
for live parts	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	spring-loaded terminals
for auxiliary and control circuit	spring-loaded terminals
at contactor for auxiliary contacts	Spring-tope terminals
of magnet coil	Spring-type terminals
type of connectable conductor cross-sections	opg type terrimose
• for main contacts	
— solid	2x (0.5 4 mm²)
solid solid or stranded	2x (0.5 4 mm²)
finely stranded with core end processing	2x (0.5 2.5 mm²)
— finely stranded without core end processing	2x (0.5 2.5 mm²)
at AWG cables for main contacts	2x (20 12)
connectable conductor cross-section for main	ZA (20 12)
contacts	
• solid	0.5 4 mm²
• stranded	0.5 4 mm²
 finely stranded with core end processing 	0.5 2.5 mm²
finely stranded without core end processing	0.5 2.5 mm²
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
finely stranded without core end processing	0.5 2.5 mm ²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0,5 4 mm²)
finely stranded with core end processing	2x (0.5 2.5 mm²)
finely stranded without core end processing	2x (0.5 2.5 mm²)
at AWG cables for auxiliary contacts	2x (20 12)
AWG number as coded connectable conductor cross section for main contacts	20 12
AWG number as coded connectable conductor	20 12
cross section for auxiliary contacts Safety related data	
B10 value with high demand rate acc. to SN 31920	1 000 000
proportion of dangerous failures	1 000 000
with low demand rate acc. to SN 31920	40 %
with high demand rate acc. to SN 31920 with high demand rate acc. to SN 31920	73 %
failure rate [FIT] with low demand rate acc. to SN 31920	100 FIT
product function	100111
mirror contact acc. to IEC 60947-4-1	Yes
T1 value for proof test interval or service life acc. to	20 y
IEC 61508	20)

protection class IP on the front acc. to IEC 60529

touch protection on the front acc. to IEC 60529

suitability for use safety-related switching OFF

IP20

finger-safe, for vertical contact from the front

Yes

Certificates/ approvals

General Product Approval

EMC













Declaration of Conformity

Test Certificates

Marine / Shipping



Miscellaneous

Special Test Certificate Type Test Certificates/Test Report





Marine / Shipping

other











Confirmation

other



Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2015-2BB42

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2015-2BB42

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2BB42

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

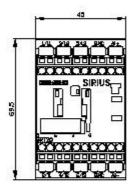
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2015-2BB42&lang=en

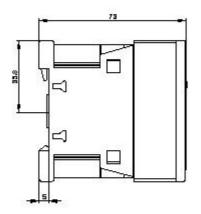
Characteristic: Tripping characteristics, I²t, Let-through current

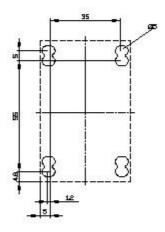
https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2BB42/char

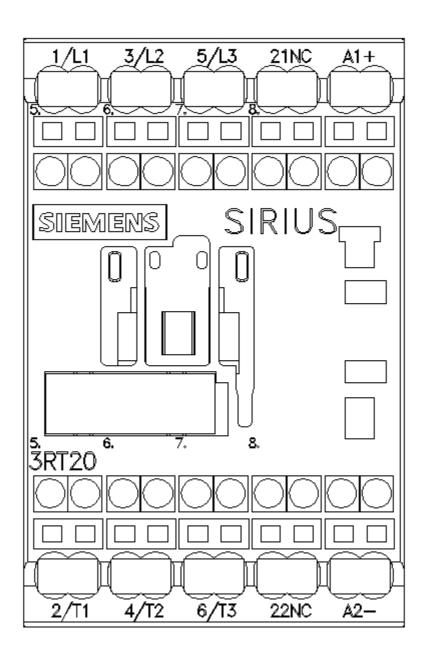
Further characteristics (e.g. electrical endurance, switching frequency)

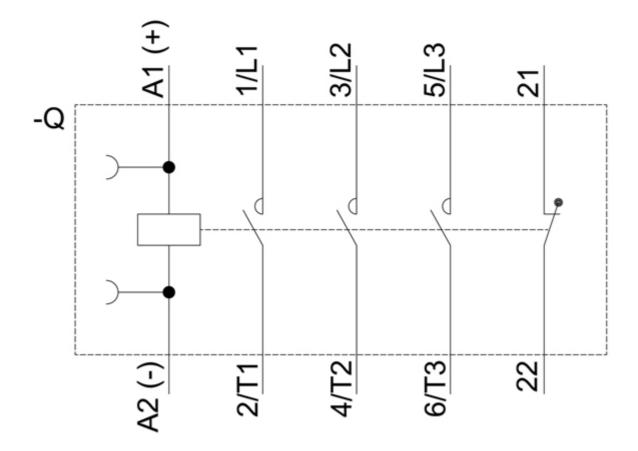
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2015-2BB42&objecttype=14&gridview=view1











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