SIEMENS

Data sheet

3RT1054-2AR36

Power contactor, AC-3 115 A, 55 kW / 400 V AC (50-60 Hz) / DC operation 440-480 V UC Auxiliary contacts 2 NO + 2 NC 3-pole, Size S6 Busbar connections Drive: conventional Spring-type terminal



product brand name	SIRIUS
Product designation	Power contactor
Product type designation	3RT1
General technical data	
Size of contactor	S6
Product extension	
function module for communication	No

 function module for communication 	No
Auxiliary switch	Yes
Power loss [W] for rated value of the current	
 at AC in hot operating state 	21 W
 at AC in hot operating state per pole 	7 W
Power loss [W] for rated value of the current without	5.2 W
load current share typical	
Surge voltage resistance	
 of main circuit rated value 	8 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for safe isolation	
 between coil and main contacts acc. to EN 	690 V
60947-1	

 protection class IP on the front 	IP00; IP20 on the front with cover / box terminal			
Protection class IP of the terminal	IP00			
Shock resistance at rectangular impulse				
• at AC	8,5g / 5 ms, 4,2g / 10 ms			
● at DC	8,5g / 5 ms, 4,2g / 10 ms			
Shock resistance with sine pulse				
• at AC	13,4g / 5 ms, 6,5g / 10 ms			
● at DC	13,4g / 5 ms, 6,5g / 10 ms			
Mechanical service life (switching cycles)				
of contactor typical	10 000 000			
 of the contactor with added electronics- compatible auxiliary switch block typical 	5 000 000			
 of the contactor with added auxiliary switch block typical 	10 000 000			
Reference code acc. to DIN EN 81346-2	Q			
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			
Main circuit				
Main circuit Number of poles for main current circuit	3			
	3 3			
Number of poles for main current circuit				
Number of poles for main current circuit Number of NO contacts for main contacts				
Number of poles for main current circuit Number of NO contacts for main contacts Operating voltage	3			
Number of poles for main current circuit Number of NO contacts for main contacts Operating voltage • at AC-3 rated value maximum	3			
Number of poles for main current circuit Number of NO contacts for main contacts Operating voltage • at AC-3 rated value maximum Operating current	3			
Number of poles for main current circuit Number of NO contacts for main contacts Operating voltage • at AC-3 rated value maximum Operating current • at AC-1 at 400 V	3 1 000 V			
Number of poles for main current circuit Number of NO contacts for main contacts Operating voltage • at AC-3 rated value maximum Operating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value	3 1 000 V			
Number of poles for main current circuit Number of NO contacts for main contacts Operating voltage • at AC-3 rated value maximum Operating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value • at AC-1 — up to 690 V at ambient temperature 40 °C	3 1 000 V 160 A			
Number of poles for main current circuit Number of NO contacts for main contacts Operating voltage • at AC-3 rated value maximum Operating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C	3 1 000 V 160 A 160 A			
Number of poles for main current circuit Number of NO contacts for main contacts Operating voltage • at AC-3 rated value maximum Operating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 40 °C	3 1 000 V 160 A 160 A 140 A			
Number of poles for main current circuit Number of NO contacts for main contacts Operating voltage • at AC-3 rated value maximum Operating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 40 °C rated value — up to 1000 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 40 °C rated value	3 1 000 V 160 A 160 A 140 A 80 A			
Number of poles for main current circuit Number of NO contacts for main contacts Operating voltage • at AC-3 rated value maximum Operating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 40 °C rated value — up to 1000 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 40 °C rated value	3 1 000 V 160 A 160 A 140 A 80 A 80 A			
Number of poles for main current circuit Number of NO contacts for main contacts Operating voltage • at AC-3 rated value maximum Operating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 40 °C rated value — up to 1000 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 60 °C rated value	3 1 000 V 160 A 160 A 140 A 80 A 80 A			
Number of poles for main current circuit Number of NO contacts for main contacts Operating voltage • at AC-3 rated value maximum Operating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 40 °C rated value — up to 1000 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 60 °C rated value • at AC-2 at 400 V rated value • at AC-3	3 1 000 V 160 A 160 A 140 A 80 A 80 A 115 A			

— at 690 V rated value	115 A
— at 1000 V rated value	53 A
• at AC-4 at 400 V rated value	97 A
• at AC-5a up to 690 V rated value	140 A
• at AC-5b up to 400 V rated value	95 A
● at AC-6a	
— up to 230 V for current peak value n=20 rated value	115 A
— up to 400 V for current peak value n=20 rated value	115 A
— up to 500 V for current peak value n=20 rated value	115 A
— up to 690 V for current peak value n=20 rated value	115 A
— up to 1000 V for current peak value n=20 rated value	53 A
● at AC-6a	
— up to 230 V for current peak value n=30 rated value	98 A
— up to 400 V for current peak value n=30 rated value	98 A
— up to 500 V for current peak value n=30 rated value	98 A
— up to 690 V for current peak value n=30 rated value	98 A
— up to 1000 V for current peak value n=30 rated value	53 A
Minimum cross-section in main circuit	
 at maximum AC-1 rated value 	70 mm²
Operating current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	54 A
• at 690 V rated value	48 A
Operating current	
 at 1 current path at DC-1 	
— at 24 V rated value	160 A
— at 110 V rated value	18 A
— at 220 V rated value	3.4 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.5 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	160 A
— at 110 V rated value	160 A

at 220 M rated value	20 A
— at 220 V rated value — at 440 V rated value	3.2 A
— at 600 V rated value	1.6 A
 with 3 current paths in series at DC-1 	
- at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 A
— at 440 V rated value	11.5 A
— at 600 V rated value	4 A
Operating current	
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	160 A
— at 110 V rated value	2.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.17 A
— at 600 V rated value	0.12 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	2.5 A
— at 440 V rated value	0.65 A
— at 600 V rated value	0.37 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
Operating power	
• at AC-2 at 400 V rated value	55 kW
• at AC-3	
— at 230 V rated value	37 kW
— at 400 V rated value	55 kW
— at 500 V rated value	75 kW
— at 690 V rated value	110 kW
— at 1000 V rated value	75 kW
Operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	29 kW
• at 690 V rated value	48 kW
Operating apparent output at AC-6a	

 at AC-2 maximum at AC-3 maximum	400 1/h 1 000 1/h 130 1/h
 at AC-1 maximum at AC-2 maximum 	400 1/h
Operating frequency	800 1/h
• at DC	2 000 1/h
• at AC	2 000 1/h
No-load switching frequency	0.000 4/5
 limited to 60 s switching at zero current maximum 	572 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	729 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	1 170 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	1 654 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 1 s switching at zero current maximum 	2 565 A; Use minimum cross-section acc. to AC-1 rated value
Short-time withstand current in cold operating state up to 40 °C	
value	
 up to 690 v for current peak value n=30 rated up to 1000 V for current peak value n=30 rated 	90 000 V·A
 up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated 	80 000 V·A 110 000 V·A
up to 400 V for current peak value n=30 rated value	60 000 V·A
• up to 230 V for current peak value n=30 rated value	30 000 V·A
Operating apparent output at AC-6a	20.000.1/ 4
 up to 1000 V for current peak value n=20 rated value 	90 000 V·A
 up to 690 V for current peak value n=20 rated value 	130 000 V·A
 up to 500 V for current peak value n=20 rated value 	100 000 V·A
 up to 400 V for current peak value n=20 rated value 	80 000 V·A
 up to 230 V for current peak value n=20 rated value 	40 000 kV·A

	440 490 \/
• at 50 Hz rated value	440 480 V
• at 60 Hz rated value	440 480 V
Control supply voltage at DC	440 400.14
• rated value	440 480 V
Operating range factor control supply voltage rated value of magnet coil at DC	
● initial value	0.8
Full-scale value	1.1
Operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
Design of the surge suppressor	with varistor
Apparent pick-up power of magnet coil at AC	
● at 50 Hz	300 V·A
Inductive power factor with closing power of the coil	
● at 50 Hz	0.9
Apparent holding power of magnet coil at AC	
● at 50 Hz	5.8 V·A
Inductive power factor with the holding power of the coil	
● at 50 Hz	0.8
Closing power of magnet coil at DC	360 W
Holding power of magnet coil at DC	5.2 W
Closing delay	
• at AC	20 95 ms
• at DC	20 95 ms
Opening delay	
• at AC	40 60 ms
• at DC	40 60 ms
Arcing time	10 15 ms
Control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
Number of NC contacts for auxiliary contacts	
 instantaneous contact 	2
Number of NO contacts for auxiliary contacts	
 instantaneous contact 	2
Operating current at AC-12 maximum	10 A
Operating current at AC-15	
• at 230 V rated value	6 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A

Operating current al DC-12 Image: State of the set of the	• at 690 V rated value	1 A			
at 84 Vitade value 6 A at 80 Vitade value 6 A at 80 Vitade value 3 A at 125 Vitade value 3 A at 125 Vitade value 1 A at 200 Vitade value 0.15 A Operating current at DC-13	Operating current at DC-12				
at 60 V rated value 6 Å at 110 V rated value 3 Å at 125 V rated value 2 Å at 220 V rated value 1 Å at 600 V rated value 2 Å at 600 V rated value 2 Å at 100 V rated value 2 Å at 100 V rated value 2 Å at 100 V rated value 0 Å at 110 V rated value 0 Å at 1220 V rated value 0 Å at 100 V rated value 0 Å at 220 V rated value 0 Å at 800 V rated value 124 Å at 800 V rated value 125 Å Vielded mechanical performance [ħp] 124 Å i 61 40 V rated value 125 Å Vielded mechanical performance [ħp] 100 ħp - at 200/208 V rated value 50 ħp - at 400480 V rated value	• at 24 V rated value	10 A			
at 110 V rated value 3 A at 125 V rated value 2 A at 220 V rated value 1 A at 600 V rated value 0.15 A Operating current at DC-13	• at 48 V rated value	6 A			
at 125 V rated value 2 A • at 220 V rated value 1 A • at 220 V rated value 0.15 A Operating current at DC-13 - • at 24 V rated value 10 A • at 43 V rated value 2 A • at 40 V rated value 2 A • at 60 V rated value 2 A • at 60 V rated value 2 A • at 60 V rated value 0.9 A • at 220 V rated value 0.3 A • at 60 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) U/CSA ratings Full-lead current (FLA) for three-phase AC motor • at 800 V rated value 124 A • at 800 V rated value 125 A Vielded mechanical performance [hp] • for single-phase AC motor - - at 200/208 V rated value 25 hp • for three-phase AC motor - - at 50/400 V rated value 100 hp - at 60/4080 V rated value 125 hp Contact rating of auxiliary contacts according to UL A600 / Q600 Sign of the fuse link • for short-circuit protection of the main circuit - with type of assignment 2 required gG: 355 A (690 V, 10	• at 60 V rated value	6 A			
at 220 V rated value 1 A • at 24 V rated value 0.15 A Operating current at DC-13 10 A • at 24 V rated value 10 A • at 24 V rated value 2 A • at 80 V rated value 2 A • at 80 V rated value 2 A • at 10 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 Full-lead current (FLA) for three-phase AC motor • at 800 V rated value 124 A • at 600 V rated value 125 A Vielded mechanical performance [hp] • for three-phase AC motor - - at 200/208 V rated value 25 hp • for three-phase AC motor - - at 200/208 V rated value 10 hp - at 450/480 V rated value 10 hp	• at 110 V rated value	3 A			
at 600 V rated value 0.15 A Operating current at DC-13 10 A at 24 V rated value 2 A at 60 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 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 Full-cod current (FLA) for three-phase AC motor at 480 V rated value 125 A Vielded mechanical performance (hp) • for single-phase AC motor - - at 200/208 V rated value 25 hp • for three-phase AC motor - - at 200/208 V rated value 20 hp - at 200/208 V rated value 20 hp - at 460/480 V rated value 100 hp - at 450/480 V rated value 100 hp - at 450/480 V rated value 125 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 gG: 255 A (690 V, 100 kA) - with type of assignment 2 required gG: 255 A (690 V, 100 kA), aM: 200 A (690	• at 125 V rated value	2 A			
Operating current at DC-13 10 A • at 24 V rated value 2 A • at 48 V rated value 2 A • at 60 V rated value 2 A • at 110 V rated value 0.9 A • at 125 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/CSA ratings Full-load current (FLA) for three-phase AC motor • at 480 V rated value 124 A • at 600 V rated value 125 A Vielded mechanical performance [hp] • for single-phase AC motor - - at 200/208 V rated value 25 hp • for three-phase AC motor - - at 200/208 V rated value 40 hp - at 200/208 V rated value 50 hp - at 460/480 V rated value 100 hp - at 200/208 V rated value 50 hp - at 460/480 V rated value 100 hp - at 575/600 V rated value 125 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: 355 A (690 V, 100 kA) - with type of coordination 1 required	• at 220 V rated value	1 A			
• at 24 V rated value 10 Å • at 48 V rated value 2 Å • at 60 V rated value 2 Å • at 10 V rated value 1 Å • at 110 V rated value 0.9 Å • at 220 V rated value 0.3 Å • at 600 V rated value 0.1 Å contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mÅ) UL/CSA ratings Full-bade current (FLA) for three-phase AC motor • at 600 V rated value 124 Å • at 600 V rated value 125 Å Vielded mechanical performance [hp] • for single-phase AC motor - - at 230 V rated value 25 hp • for three-phase AC motor - - at 200/208 V rated value 40 hp - at 200/208 V rated value 50 hp - at 460/480 V rated value 100 hp - at 450/480 V rated value 100 hp - at 575/600 V rated value 100 hp - at 575/600 V rated value 100 hp - at 450/480 V rotection of the main circuit G: 355 Å (690 V, 100 kÅ) For short-circuit protection of the main circuit - with type of coordination 1 req	• at 600 V rated value	0.15 A			
at 48 V rated value 2 Å at 60 V rated value 2 Å at 110 V rated value 1 Å at 110 V rated value 0.9 Å at 125 V rated value 0.3 Å at 220 V rated value 0.1 Å contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mÅ) U/CSA ratings Full-bad current (FLA) for three-phase AC motor at 800 V rated value 124 Å at 600 V rated value 125 Å Vielded mechanical performance [tp] • for single-phase AC motor - - at 230 V rated value 25 hp • for three-phase AC motor - - at 200/208 V rated value 20 hp - at 200/208 V rated value 50 hp - at 200/208 V rated value 100 hp - at 200/208 V rated value 125 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: 355 Å (690 V, 100 kÅ), aM: 200 Å (690 V, 50 kÅ), BS88: 250 Å (415 V, 50 kÅ) - with type of assignment 2 required gG: 10	Operating current at DC-13				
at 60 V rated value 2 A at 110 V rated value 1 A at 125 V rated value 0.9 A at 220 V rated value 0.3 A at 600 V rated value 0.1 A Contact reliability of auxiliary contacts UL/CSA ratings Full-load current (FLA) for three-phase AC motor at 800 V rated value 124 A at 800 V rated value 125 A Yielded mechanical performance [tp] for single-phase AC motor - - at 230 V rated value 25 hp for single-phase AC motor - - at 200/208 V rated value 25 hp - for three-phase AC motor - - at 200/208 V rated value 50 hp - at 200/208 V rated value 100 hp - at 200/208 V rated value 100 hp - at 460/480 V rated value 125 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: 355 A (690 V, 100 kA) - with type of assignment 2 required gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (41	• at 24 V rated value	10 A			
eat 110 V rated value 1 A eat 125 V rated value 0.9 A eat 220 V rated value 0.3 A eat 600 V rated value 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) U/CSA ratings Full-load current (FLA) for three-phase AC motor • at 480 V rated value 124 A • at 600 V rated value 125 A Yielded mechanical performance [hp] • for single-phase AC motor - - at 230 V rated value 25 hp • for three-phase AC motor - - at 200/208 V rated value 50 hp • for three-phase AC motor - - at 220/230 V rated value 50 hp - at 220/230 V rated value 100 hp - at 55/600 V rated value 100 hp - at 55/600 V rated value 100 hp - at 55/600 V rated value 125 hp Contact rating of auxiliary contacts according to UL A600 / Q600 A600 / Q600 Short-circuit protection of the main circuit - with type of coordination 1 required g6: 355 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), B	• at 48 V rated value	2 A			
at 125 V rated value 0.9 A e at 125 V rated value 0.3 A e at 600 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) U/CSA ratings U/CSA ratings UI/Cod current (FLA) for three-phase AC motor e at 800 V rated value 124 A e at 600 V rated value 125 A Yielded mechanical performance [hp] e for single-phase AC motor - at 230 V rated value - at 200 / 208 V rated value 25 hp e for three-phase AC motor - at 220/230 V rated value - at 220/230 V rated value 50 hp - at 220/230 V rated value 100 hp - at 460/480 V rated value 100 hp - at 575/600 V rated value 125 hp Orthout rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection of the main circuit - with type of coordination 1 required gG: 355 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) - with type of assignment 2 required gG: 10 A (500 V, 10 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA)	• at 60 V rated value	2 A			
 a t 220 V rated value 0.3 A a t 200 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings Full-load current (FLA) for three-phase AC motor a t 480 V rated value 125 A Yleided mechanical performance [hp] for single-phase AC motor at 200/2020 V rated value 25 hp for three-phase AC motor at 200/2020 V rated value 25 hp for three-phase AC motor at 200/208 V rated value 25 hp for three-phase AC motor at 200/208 V rated value 25 hp for three-phase AC motor at 200/208 V rated value 25 hp for three-phase AC motor at 200/208 V rated value 100 hp at 575/600 V rated value 100 hp at 575/600 V rated value 25 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: 355 A (690 V, 100 kA) gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) for short-circuit protection of the auxiliary switch gG: 10 A (500 V, 10 kA), add: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 10 kA), add: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50	• at 110 V rated value	1 A			
• at 600 V rated value 0.1 A contact reliability of audilary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings Full-load current (FLA) for three-phase AC motor • at 480 V rated value 124 A • at 600 V rated value 125 A Yleided mechanical performance [hp] 125 A • for single-phase AC motor - at 230 V rated value • at 200/208 V rated value 25 hp • for three-phase AC motor - at 220/230 V rated value - at 220/230 V rated value 50 hp - at 460/480 V rated value 100 hp - at 575/600 V rated value 125 hp Contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection gG: 355 A (690 V, 100 kA) — with type of coordination 1 required gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 10 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA)	• at 125 V rated value	0.9 A			
contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) U/CSA ratings Full-load current (FLA) for three-phase AC motor at 480 V rated value 125 A Yielded mechanical performance [hp] for single-phase AC motor 	• at 220 V rated value	0.3 A			
UL/CSA ratings Full-load current (FLA) for three-phase AC motor at 480 V rated value 124 A at 600 V rated value 125 A Yielded mechanical performance [hp] for single-phase AC motor at 200/208 V rated value 25 hp for three-phase AC motor at 200/208 V rated value 40 hp at 220/230 V rated value 50 hp at 460/480 V rated value 100 hp at 575/600 V rated value 125 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 G: 355 A (690 V, 100 kA) gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) 	• at 600 V rated value	0.1 A			
Full-load current (FLA) for three-phase AC motor 124 A • at 480 V rated value 125 A Yielded mechanical performance [hp] 125 A • for single-phase AC motor 25 hp - at 230 V rated value 25 hp • for three-phase AC motor - at 200/208 V rated value - at 200/208 V rated value 40 hp - at 220/230 V rated value 50 hp - at 220/230 V rated value 100 hp - at 575/600 V rated value 125 hp Contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection gG: 355 A (690 V, 100 kA) Design of the fuse link 9G: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)			
Full-load current (FLA) for three-phase AC motor 124 A • at 480 V rated value 125 A Yielded mechanical performance [hp] 125 A • for single-phase AC motor 25 hp - at 230 V rated value 25 hp • for three-phase AC motor - at 200/208 V rated value - at 200/208 V rated value 40 hp - at 220/230 V rated value 50 hp - at 220/230 V rated value 100 hp - at 575/600 V rated value 125 hp Contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection gG: 355 A (690 V, 100 kA) Design of the fuse link 9G: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)	UL/CSA ratings				
 at 600 V rated value 125 A Yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value 25 hp for three-phase AC motor at 200/208 V rated value 40 hp at 220/230 V rated value 50 hp at 460/480 V rated value 100 hp at 575/600 V rated value A600 / Q600 Contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection of the main circuit with type of coordination 1 required GG: 355 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) for short-circuit protection of the auxiliary switch required GG: 10 A (500 V, 1 kA) GG: 10 A (500 V, 1 kA) A (500 V, 1 kA)					
Yielded mechanical performance [hp] • for single-phase AC motor - at 230 V rated value • for three-phase AC motor - at 200/208 V rated value 40 hp - at 200/208 V rated value 50 hp - at 460/480 V rated value 100 hp - at 460/480 V rated value 100 hp - at 575/600 V rated value 125 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 gG: 355 A (690 V, 100 kA) - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required	• at 480 V rated value	124 A			
 for single-phase AC motor at 230 V rated value for three-phase AC motor at 200/208 V rated value 40 hp at 220/230 V rated value 50 hp at 460/480 V rated value 100 hp at 575/600 V rated value A600 / Q600 Short-circuit protection of the main circuit with type of coordination 1 required GG: 355 A (690 V, 100 kA) with type of assignment 2 required GG: 10 A (500 V, 1 kA) 	• at 600 V rated value	125 A			
at 230 V rated value25 hp• for three-phase AC motor at 200/208 V rated value40 hp at 220/230 V rated value50 hp at 460/480 V rated value100 hp at 575/600 V rated value125 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: 355 A (690 V, 100 kA)- with type of assignment 2 requiredgG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA)• for short-circuit protection of the auxiliary switch requiredgG: 10 A (500 V, 1 kA)	Yielded mechanical performance [hp]				
 for three-phase AC motor at 200/208 V rated value at 220/230 V rated value b hp at 220/230 V rated value c hp at 460/480 V rated value 100 hp at 575/600 V rated value 125 hp Contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection Design of the fuse link 	 for single-phase AC motor 				
 at 200/208 V rated value at 220/230 V rated value bp at 460/480 V rated value 100 hp at 575/600 V rated value 125 hp Contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection Ge: 355 A (690 V, 100 kA) with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Ge: 10 A (500 V, 1 kA) 	— at 230 V rated value	25 hp			
at 220/230 V rated value50 hp at 460/480 V rated value100 hp at 575/600 V rated value125 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: 355 A (690 V, 100 kA) gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA)• for short-circuit protection of the auxiliary switch requiredgG: 10 A (500 V, 1 kA)	 for three-phase AC motor 				
at 460/480 V rated value100 hp at 575/600 V rated value125 hpContact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectionGesign of the fuse link• for short-circuit protection of the main circuit - with type of coordination 1 requiredgG: 355 A (690 V, 100 kA) gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA)• for short-circuit protection of the auxiliary switch requiredgG: 10 A (500 V, 1 kA)	— at 200/208 V rated value	40 hp			
at 575/600 V rated value125 hpContact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectiongG: 355 A (690 V, 100 kA) with type of coordination 1 requiredgG: 355 A (690 V, 100 kA) with type of assignment 2 requiredgG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA)• for short-circuit protection of the auxiliary switch requiredgG: 10 A (500 V, 1 kA)	— at 220/230 V rated value	50 hp			
Contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection Gesign of the fuse link Gesign of the fuse link • for short-circuit protection of the main circuit gG: 355 A (690 V, 100 kA) - with type of coordination 1 required gG: 250 A (690 V, 100 kA) - with type of assignment 2 required gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)	— at 460/480 V rated value	100 hp			
Short-circuit protection Design of the fuse link e for short-circuit protection of the main circuit gG: 355 A (690 V, 100 kA) — with type of coordination 1 required gG: 250 A (690 V, 100 kA) gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)	— at 575/600 V rated value	125 hp			
Design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required gG: 355 A (690 V, 100 kA) - with type of assignment 2 required gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)	Contact rating of auxiliary contacts according to UL	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 for short-circuit protection of the auxiliary switch required 	Short-circuit protection				
 with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required G: 355 A (690 V, 100 kA) gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) 	Design of the fuse link				
 with type of assignment 2 required for short-circuit protection of the auxiliary switch required G: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) 	 for short-circuit protection of the main circuit 				
 for short-circuit protection of the auxiliary switch required A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) 	- with type of coordination 1 required	gG: 355 A (690 V, 100 kA)			
required	— with type of assignment 2 required				
Installation/ mounting/ dimensions		gG: 10 A (500 V, 1 kA)			
	Installation/ mounting/ dimensions				

 mounting position 	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
Mounting type	screw fixing
 Side-by-side mounting 	Yes
Height	172 mm
Width	120 mm
Depth	170 mm
Required spacing	
 with side-by-side mounting 	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
 for grounded parts 	
— forwards	20 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
• for live parts	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm

Connections/ Terminals		
Width of connection bar	17 mm	
Thickness of connection bar	3 mm	
Diameter of holes	9 mm	
Number of holes	1	
 Type of electrical connection for main current circuit 	Connection bar	
 Type of electrical connection for auxiliary and control current circuit 	spring-loaded terminals	
 Type of electrical connection at contactor for auxiliary contacts 	Spring-type terminals	
 Type of electrical connection of magnet coil 	Spring-type terminals	
Type of connectable conductor cross-sections		
 at AWG conductors for main contacts 	4 250 kcmil	
Connectable conductor cross-section for main contacts		
• stranded	25 120 mm²	
Connectable conductor cross-section for auxiliary contacts		
 single or multi-stranded 	0.25 2.5 mm²	

 finely stranded with core end processing 	0.25 1.5 mm²
 finely stranded without core end processing 	0.25 2.5 mm²
Type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid	2x (0.25 2.5 mm²)
— single or multi-stranded	2x (0,25 2,5 mm²)
— finely stranded with core end processing	2x (0.25 1.5 mm²)
 finely stranded without core end processing 	2x (0.25 2.5 mm²)
 at AWG conductors for auxiliary contacts 	2x (24 14)
AWG number as coded connectable conductor cross	
section	
 for auxiliary contacts 	24 14
Safety related data	
B10 value	
 with high demand rate acc. to SN 31920 	1 000 000
Product function	
 Mirror contact acc. to IEC 60947-4-1 	Yes
 Mirror contact acc. to IEC 60947-4-1 positively driven operation acc. to IEC 60947-5-1 	Yes No
• positively driven operation acc. to IEC 60947-5-	

General Prod	luct Approval			EMC	Functional Safety/Safety of Machinery
	CSA		EHC	RCM	Type Examination Certificate
Declaration	(O and (a much the	Test Ostifica		Marina / Ohim	- •

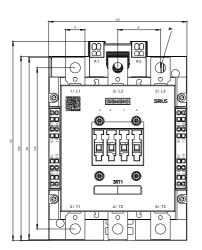
Declaration of Conformity	Test Certificates	Marine / Shipping	
Miscellaneous EG-Konf.	Special Test Certi- Type Test Certific- ficate ates/Test Report	ABS RMRS	

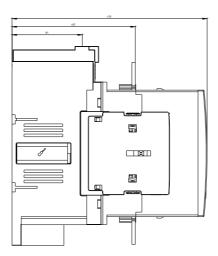
Marine / Ship- ping	other		Railway	
ANT GL	Confirmation	Miscellaneous	<u>Special Test Certi-</u> <u>ficate</u>	

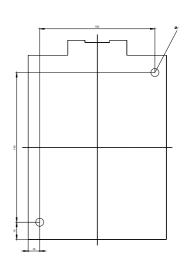
Further information Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1054-2AR36 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1054-2AR36 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-2AR36 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1054-2AR36&lang=en Characteristic: Tripping characteristics, I²t, Let-through current

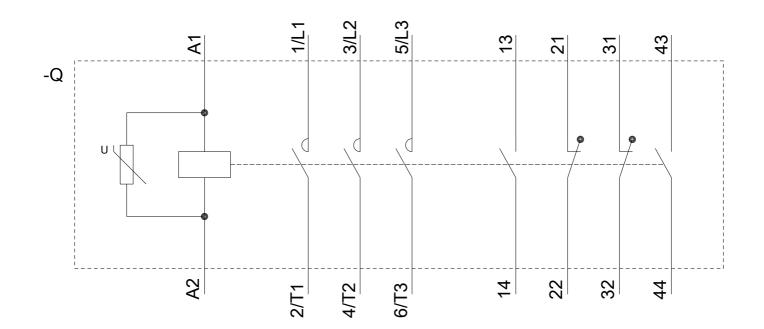
https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-2AR36/char Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1054-2AR36&objecttype=14&gridview=view1









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