SIEMENS

Data sheet

3RT1054-6AF36



Power contactor, AC-3 115 A, 55 kW / 400 V AC (50-60 Hz) / DC operation 110-127 V UC Auxiliary contacts 2 NO + 2 NC 3-pole, Size S6 Busbar connections Drive: conventional screw terminal

product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S6
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	21 W
• per pole	7 W
power loss [W] for rated value of the current without load current share typical	5.2 W
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 60947-1	690 V
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 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)	01.05.2012 00:00:00
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 %

maximum	
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	1 000 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated value	160 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	160 A
— up to 690 V at ambient temperature 60 °C rated value	140 A
— up to 1000 V at ambient temperature 40 °C rated value	80 A
— up to 1000 V at ambient temperature 60 °C rated value	80 A
• at AC-3	
— at 400 V rated value	115 A
— at 500 V rated value	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 at AC-6a 	95 A
 — 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 mm ²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	54 A
• at 690 V rated value	48 A
operational 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 V rated value	20 A
— 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
operational 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-3	27.114
— 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 75 kW
at 1000 V rated value operating power for approx. 200000 operating cycles	7 3 KVV
at AC-4	
• at 400 V rated value	29 kW
• at 690 V rated value	48 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	40 000 kV·A
 up to 200 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value 	80 000 V·A
• up to 400 V for current peak value n=20 rated value	80 000 V·A
 up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated 	80 000 V·A 100 000 V·A
 up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value 	80 000 V·A 100 000 V·A 130 000 V·A
 up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value operating apparent power at AC-6a 	80 000 V·A 100 000 V·A 130 000 V·A 90 000 V·A
 up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value 	80 000 V·A 100 000 V·A 130 000 V·A 90 000 V·A 30 000 V·A
 up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value 	80 000 V·A 100 000 V·A 130 000 V·A 90 000 V·A 30 000 V·A 60 000 V·A
 up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value 	80 000 V·A 100 000 V·A 130 000 V·A 90 000 V·A 30 000 V·A 60 000 V·A 80 000 V·A
 up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value up to 200 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value 	80 000 V·A 100 000 V·A 130 000 V·A 90 000 V·A 30 000 V·A 60 000 V·A 80 000 V·A 110 000 V·A
 up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 1000 V for current peak value n=30 rated value 	80 000 V·A 100 000 V·A 130 000 V·A 90 000 V·A 30 000 V·A 60 000 V·A 80 000 V·A
 up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value up to 200 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 1000 V for current peak value n=30 rated value 	80 000 V·A 100 000 V·A 130 000 V·A 90 000 V·A 30 000 V·A 60 000 V·A 80 000 V·A 110 000 V·A
 up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 1000 V for current peak value n=30 rated value 	80 000 V·A 100 000 V·A 130 000 V·A 90 000 V·A 30 000 V·A 60 000 V·A 80 000 V·A 110 000 V·A
 up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 1000 V for current peak value n=30 rated value short-time withstand current in cold operating state 	80 000 V·A 100 000 V·A 130 000 V·A 90 000 V·A 30 000 V·A 60 000 V·A 80 000 V·A 110 000 V·A
 up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 1000 V for current peak value n=30 rated value up to 1000 V for current peak value n=30 rated value up to 1000 V for current peak value n=30 rated value up to 400 °C 	80 000 V·A 100 000 V·A 130 000 V·A 90 000 V·A 30 000 V·A 60 000 V·A 80 000 V·A 110 000 V·A 90 000 V·A
 up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 1000 V for current peak value n=30 rated value up to 1000 V for current peak value n=30 rated value up to 1000 V for current peak value n=30 rated value up to 40 °C limited to 1 s switching at zero current maximum 	80 000 V·A 100 000 V·A 130 000 V·A 90 000 V·A 30 000 V·A 60 000 V·A 80 000 V·A 110 000 V·A 90 000 V·A 2 565 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 60 s switching at zero current maximum 	572 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	2 000 1/h
● at DC	2 000 1/h
operating frequency	_
• at AC-1 maximum	800 1/h
• at AC-2 maximum	400 1/h
• at AC-3 maximum	1 000 1/h
• at AC-4 maximum	130 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	440 4071/
at 50 Hz rated value	110 127 V
at 60 Hz rated value	110 127 V
control supply voltage at DC	
rated value	110 127 V
operating range factor control supply voltage rated value of magnet coil at DC	
initial value	0.8
	0.8
• full-scale value	
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
• at 60 Hz	300 V·A
inductive power factor with closing power of the coil	300 V A
at 50 Hz	0.9
• at 60 Hz	0.9
apparent holding power of magnet coil at AC	
apparent holding power of magnet con at AC o at 50 Hz	5.8 V·A
• at 60 Hz	5.8 V·A
	5.0 V'A
inductive power factor with the holding power of the coil	
● at 50 Hz	0.8
• at 60 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	
	2
number of NC contacts for auxiliary contacts instantaneous contact	
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational 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

at 690 V rated value	1 A
operational current at DC-12	
• at 24 V rated value	10 A
• at 48 V rated value	6 A
 at 60 V rated value 	6 A
 at 110 V rated value 	3 A
 at 125 V rated value 	2 A
 at 220 V rated value 	1 A
at 600 V rated value	0.15 A
operational current at DC-13	
 at 24 V rated value 	10 A
 at 48 V rated value 	2 A
 at 60 V rated value 	2 A
 at 110 V rated value 	1 A
 at 125 V rated value 	0.9 A
 at 220 V rated value 	0.3 A
• at 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-load current (FLA) for 3-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 3-phase AC motor	20 hp
- at 200/208 V rated value	40 hp
— at 220/200 V rated value	
	50 hp
— at 460/480 V rated value	100 hp
at EZE/COO V/ rated value	10E hn
- at 575/600 V rated value	125 hp
contact rating of auxiliary contacts according to UL	125 hp A600 / Q600
contact rating of auxiliary contacts according to UL Short-circuit protection	
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link	
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit	A600 / Q600
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	A600 / Q600 gG: 355 A (690 V, 100 kA)
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit	A600 / Q600 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)
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	A600 / Q600 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
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	A600 / Q600 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)
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	A600 / Q600 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)
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	A600 / Q600 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)
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	A600 / Q600 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) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting
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	A600 / Q600 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) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
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	A600 / Q600 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) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing
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	A600 / Q600 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) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes
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	A600 / Q600 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) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm
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	A600 / Q600 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) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm
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 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) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm
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 required spacing	A600 / Q600 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) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm
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 required spacing • with side-by-side mounting	A600 / Q600 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) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm
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 required spacing • with side-by-side mounting	A600 / Q600 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) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 20 mm
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 required spacing • with side-by-side mounting — forwards — upwards	A600 / Q600 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) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 20 mm 10 mm
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 required spacing • with side-by-side mounting - forwards - upwards - downwards	A600 / Q600 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) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 20 mm 10 mm
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 required spacing • with side-by-side mounting - forwards - upwards - upwards - downwards - at the side	A600 / Q600 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) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 20 mm 10 mm
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 required spacing • with side-by-side mounting - forwards - upwards - downwards - at the side • for grounded parts	A600 / Q600 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) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 20 mm 10 mm 0 mm
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 required spacing • with side-by-side mounting - forwards - upwards - at the side • for grounded parts - forwards	A600 / Q600 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) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 20 mm 10 mm 0 mm 20 mm
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 required spacing • with side-by-side mounting - forwards - upwards - at the side • for grounded parts - forwards - upwards	A600 / Q600 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) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 20 mm 10 mm 20 mm 10 mm
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 required spacing • with side-by-side mounting - forwards - upwards - at the side • for grounded parts - upwards - upwards - upwards - upwards - at the side	A600 / Q600 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) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 120 mm 170 mm 20 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm

— forwards			20 mm			
— upwards		20 mm				
— upwards — downwards		10 mm				
— at the side		10 mm				
Connections/ Termina	als					
width of connection			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				
 for main current circuit for auxiliary and control circuit 		screw-type terminals				
-	 for auxiliary and control circuit at contactor for auxiliary contacts 		Screw-type terminals			
 of magnet coil 			Screw-type terminals			
	conductor cross-secti	ons				
 at AWG cables 			4 250 kcmil			
	tor cross-section for n	nain				
stranded			25 120 mm²			
	tor cross-section for a	uxiliary				
solid or stranded	d		0.5 4 mm²			
	with core end processing	a	0.5 2.5 mm ²			
	conductor cross-secti	-	0.0 2.0 mm			
 for auxiliary con 						
— solid			2x (0.5 1.5 mm²), 2x (0.7	5 2.5 mm²) max 2x ($0.75 4 \text{ mm}^2$	
— solid or stra	anded		2x (0.5 1,5 mm ²), 2x (0.7 2x (0,5 1,5 mm ²), 2x (0,7			
	nded with core end proce	aniase	2x (0,5 1,5 mm ²), 2x (0,7 2x (0.5 1.5 mm ²), 2x (0.7		0,70 4 mm)	
-		cooling				
at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross		2x (20 16), 2x (18 14), 1x 12				
		uctor cross	2X (20 10), 2X (10 14),	17.12		
		uctor cross	X (20 10), 2X (10 14),	17.12		
AWG number as cod	ded connectable condu	uctor cross	18 14	17.12		
AWG number as cod section	ded connectable condu	uctor cross		12 12		
AWG number as cod section • for auxiliary con Safety related data	ded connectable condu			12		
AWG number as cod section • for auxiliary con Safety related data product function mir	led connectable condu	60947-4-1	18 14	12		
AWG number as cod section • for auxiliary con Safety related data product function min B10 value with high de	led connectable condu- itacts rror contact acc. to IEC	C 60947-4-1 31920	18 14 Yes			
AWG number as cod section • for auxiliary con Safety related data product function min B10 value with high de product function positi 60947-5-1	tacts rror contact acc. to IEC emand rate acc. to SN 3	C 60947-4-1 31920 cc. to IEC	18 14 Yes 1 000 000			
AWG number as cod section • for auxiliary con Safety related data product function mir B10 value with high de product function positi 60947-5-1 protection class IP o	tacts rror contact acc. to IEC emand rate acc. to SN 3 ively driven operation ac	C 60947-4-1 31920 cc. to IEC 60529	18 14 Yes 1 000 000 No	l/cover	ox terminal/cover	
AWG number as cod section • for auxiliary con Safety related data product function mir B10 value with high de product function positi 60947-5-1 protection class IP o	tacts rror contact acc. to IEC emand rate acc. to SN 3 ively driven operation ac on the front acc. to IEC	C 60947-4-1 31920 cc. to IEC 60529	18 14 Yes 1 000 000 No IP00; IP20 with box termina	l/cover	ox terminal/cover	
AWG number as cod section • for auxiliary con Safety related data product function mir B10 value with high de product function positi 60947-5-1 protection class IP o touch protection on	tacts rror contact acc. to IEC emand rate acc. to SN 3 ively driven operation ac on the front acc. to IEC the front acc. to IEC 60	C 60947-4-1 31920 cc. to IEC 60529	18 14 Yes 1 000 000 No IP00; IP20 with box termina	l/cover	ox terminal/cover	
AWG number as cod section • for auxiliary con Safety related data product function min B10 value with high de product function positi 60947-5-1 protection class IP o touch protection on suitability for use	ded connectable condu- ntacts rror contact acc. to IEC emand rate acc. to SN 3 ively driven operation ac on the front acc. to IEC the front acc. to IEC 6 witching OFF	C 60947-4-1 31920 cc. to IEC 60529	18 14 Yes 1 000 000 No IP00; IP20 with box termina finger-safe, for vertical conta	l/cover	ox terminal/cover	
AWG number as cod section • for auxiliary con Safety related data product function mir B10 value with high de product function positi 60947-5-1 protection class IP o touch protection on suitability for use • safety-related so	ded connectable condu- ntacts rror contact acc. to IEC emand rate acc. to SN 3 ively driven operation ac on the front acc. to IEC the front acc. to IEC 60 witching OFF s	C 60947-4-1 31920 cc. to IEC 60529	18 14 Yes 1 000 000 No IP00; IP20 with box termina finger-safe, for vertical conta	l/cover		
AWG number as cod section • for auxiliary con Safety related data product function min B10 value with high de product function positi 60947-5-1 protection class IP o touch protection on suitability for use • safety-related s	ded connectable condu- ntacts rror contact acc. to IEC emand rate acc. to SN 3 ively driven operation ac on the front acc. to IEC the front acc. to IEC 60 witching OFF s	C 60947-4-1 31920 cc. to IEC 60529	18 14 Yes 1 000 000 No IP00; IP20 with box termina finger-safe, for vertical conta	l/cover	ox terminal/cover	
AWG number as cod section • for auxiliary con Safety related data product function mir B10 value with high de product function positi 60947-5-1 protection class IP o touch protection on suitability for use • safety-related so	ded connectable condu- ntacts rror contact acc. to IEC emand rate acc. to SN 3 ively driven operation ac on the front acc. to IEC the front acc. to IEC 60 witching OFF s	C 60947-4-1 31920 cc. to IEC 60529	18 14 Yes 1 000 000 No IP00; IP20 with box termina finger-safe, for vertical conta Yes	l/cover		
AWG number as cod section • for auxiliary con Safety related data product function mir B10 value with high de product function positi 60947-5-1 protection class IP o touch protection on suitability for use • safety-related so	ded connectable condu- ntacts rror contact acc. to IEC emand rate acc. to SN 3 ively driven operation ac on the front acc. to IEC the front acc. to IEC 60 witching OFF s	C 60947-4-1 31920 cc. to IEC 60529	18 14 Yes 1 000 000 No IP00; IP20 with box termina finger-safe, for vertical conta	l/cover act from the front with bo		
AWG number as cod section • for auxiliary con Safety related data product function mir B10 value with high de product function positi 60947-5-1 protection class IP o touch protection on suitability for use • safety-related so	ded connectable condu- ntacts rror contact acc. to IEC emand rate acc. to SN 3 ively driven operation ac on the front acc. to IEC the front acc. to IEC 60 witching OFF s	C 60947-4-1 31920 cc. to IEC 60529	18 14 Yes 1 000 000 No IP00; IP20 with box termina finger-safe, for vertical conta Yes	l/cover		
AWG number as cod section • for auxiliary con Safety related data product function mir B10 value with high de product function positi 60947-5-1 protection class IP o touch protection on suitability for use • safety-related so	ded connectable condu- ntacts rror contact acc. to IEC emand rate acc. to SN 3 ively driven operation ac on the front acc. to IEC the front acc. to IEC 60 witching OFF s	C 60947-4-1 31920 cc. to IEC 60529	18 14 Yes 1 000 000 No IP00; IP20 with box termina finger-safe, for vertical conta Yes	l/cover act from the front with bo		
AWG number as cod section • for auxiliary con Safety related data product function mir B10 value with high de product function positi 60947-5-1 protection class IP o touch protection on suitability for use • safety-related so	ded connectable condu- ntacts rror contact acc. to IEC emand rate acc. to SN 3 ively driven operation ac on the front acc. to IEC the front acc. to IEC 60 witching OFF s	C 60947-4-1 31920 cc. to IEC 60529	18 14 Yes 1 000 000 No IP00; IP20 with box termina finger-safe, for vertical conta Yes	l/cover act from the front with bo		
AWG number as cod section • for auxiliary con Safety related data product function mir B10 value with high de product function positi 60947-5-1 protection class IP o touch protection on suitability for use • safety-related so	ded connectable condu- ntacts rror contact acc. to IEC emand rate acc. to SN 3 ively driven operation ac on the front acc. to IEC the front acc. to IEC 60 witching OFF s	C 60947-4-1 31920 cc. to IEC 60529	18 14 Yes 1 000 000 No IP00; IP20 with box termina finger-safe, for vertical conta Yes	l/cover act from the front with bo		
AWG number as cod section • for auxiliary con Safety related data product function min B10 value with high de product function positi 60947-5-1 protection class IP of touch protection on suitability for use • safety-related so Certificates/ approvals General Product Ap Functional	ded connectable condu- ntacts rror contact acc. to IEC emand rate acc. to SN 3 ively driven operation acc on the front acc. to IEC the front acc. to IEC 60 witching OFF s pproval	C 60947-4-1 31920 cc. to IEC 60529	18 14 Yes 1 000 000 No IP00; IP20 with box termina finger-safe, for vertical conta Yes	I/cover act from the front with be		
AWG number as cod section • for auxiliary con Safety related data product function min B10 value with high de product function positi 60947-5-1 protection class IP of touch protection on suitability for use • safety-related so Certificates/ approvals General Product Ap Functional Safety/Safety of	ded connectable condu- ntacts rror contact acc. to IEC emand rate acc. to SN 3 ively driven operation ac on the front acc. to IEC the front acc. to IEC 60 witching OFF s	C 60947-4-1 31920 cc. to IEC 60529	18 14 Yes 1 000 000 No IP00; IP20 with box termina finger-safe, for vertical conta Yes	l/cover act from the front with bo		
AWG number as cod section • for auxiliary con Safety related data product function min B10 value with high de product function positi 60947-5-1 protection class IP of touch protection on suitability for use • safety-related so Certificates/ approvals General Product Ap Functional	ded connectable condu- ntacts rror contact acc. to IEC emand rate acc. to SN 3 ively driven operation acc on the front acc. to IEC the front acc. to IEC 60 witching OFF s pproval	C 60947-4-1 31920 cc. to IEC 60529	18 14 Yes 1 000 000 No IP00; IP20 with box termina finger-safe, for vertical conta Yes	I/cover act from the front with be		
AWG number as cod section • for auxiliary con Safety related data product function min B10 value with high da product function positi 60947-5-1 protection class IP of touch protection on suitability for use • safety-related so Certificates/ approvals General Product Ap General Product Ap	tacts rror contact acc. to IEC emand rate acc. to SN 3 ively driven operation acc on the front acc. to IEC the front acc. to IEC 60 witching OFF s oproval CCC Test Certificates	60947-4-1 31920 cc. to IEC 60529 0529	18 14 Yes 1 000 000 No IP00; IP20 with box termina finger-safe, for vertical conta Yes KC	I/cover act from the front with be		
AWG number as cod section • for auxiliary con Safety related data product function min B10 value with high da product function positi 60947-5-1 protection class IP o touch protection on suitability for use • safety-related so Certificates/ approvals General Product Ap General Product Ap	ded connectable condu- ntacts rror contact acc. to IEC emand rate acc. to SN 3 ively driven operation acc on the front acc. to IEC the front acc. to IEC 60 witching OFF s pproval	C 60947-4-1 31920 Cc. to IEC 60529 0529 UL UL Type Test Cel	18 14 Yes 1 000 000 No IP00; IP20 with box termina finger-safe, for vertical conta Yes KC rtific- Miscellaneous	I/cover act from the front with be		
AWG number as cod section • for auxiliary con Safety related data product function min B10 value with high da product function positi 60947-5-1 protection class IP of touch protection on suitability for use • safety-related so Certificates/ approvals General Product Ap General Product Ap	Add connectable condu- itacts rror contact acc. to IEC emand rate acc. to SN 3 ively driven operation ac on the front acc. to IEC the front acc. to IEC 60 witching OFF s oproval Test Certificates Special Test Certific-	60947-4-1 31920 cc. to IEC 60529 0529	18 14 Yes 1 000 000 No IP00; IP20 with box termina finger-safe, for vertical conta Yes KC rtific- Miscellaneous	I/cover act from the front with be		
AWG number as cod section • for auxiliary con Safety related data product function min B10 value with high da product function positi 60947-5-1 protection class IP o touch protection on suitability for use • safety-related so Certificates/ approvals General Product Ap General Product Ap	Add connectable condu- itacts rror contact acc. to IEC emand rate acc. to SN 3 ively driven operation ac on the front acc. to IEC the front acc. to IEC 60 witching OFF s oproval Test Certificates Special Test Certific-	C 60947-4-1 31920 Cc. to IEC 60529 0529 UL UL Type Test Cel	18 14 Yes 1 000 000 No IP00; IP20 with box termina finger-safe, for vertical conta Yes KC rtific- Miscellaneous	I/cover act from the front with be		

Marine / Shipping	other				Railway
DNV-GL	Miscellaneous	<u>Confirmation</u>	Confirmation	<u>Miscellaneous</u>	Special Test Certific- ate

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=3RT1054-6AF36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1054-6AF36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-6AF36

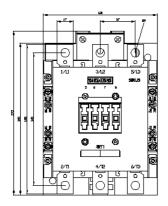
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

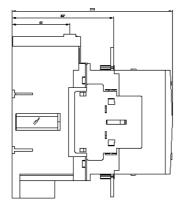
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1054-6AF36&lang=en

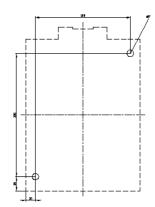
Characteristic: Tripping characteristics, I²t, Let-through current

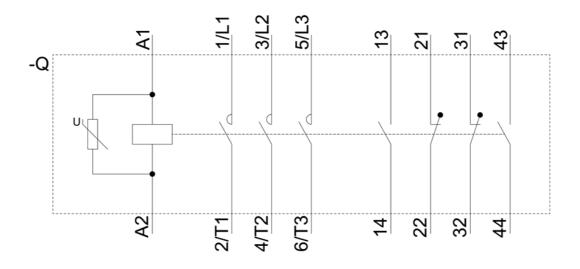
https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-6AF36/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1054-6AF36&objecttype=14&gridview=view1









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