SIEMENS

Data sheet

3RT1054-1AB36



Power contactor, AC-3 115 A, 55 kW / 400 V AC (50-60 Hz) / DC operation 23-26 V UC Auxiliary contacts 2 NO + 2 NC 3-pole, Size S6 with box terminals Drive: conventional screw 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		
 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		
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		



	4.000.)/
operating voltage at AC-3 rated value maximum	1 000 V
operational current	160 A
 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
	97 A 140 A
at AC-5a up to 690 V rated value	
• 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
value — 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	98 A
value — 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
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

e with 2 ourrent notion in corion at DC 1	
with 3 current paths in series at DC-1	160 A
— at 24 V rated value	
— 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	400.4
— 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	
— 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 power at AC-6a	
• up to 230 V for current peak value n=20 rated value	40 000 kV·A
• up to 400 V for current peak value n=20 rated value	80 000 V·A
 up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value 	100 000 V·A
	130 000 V A
 up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated 	90 000 V·A
value	
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	30 000 V·A
 up to 400 V for current peak value n=30 rated value 	60 000 V·A
 up to 500 V for current peak value n=30 rated value 	80 000 V·A
• up to 500 v for current peak value II-50 fateu value	
	110 000 V·A
• up to 690 V for current peak value n=30 rated value	110 000 V·A 90 000 V·A
 up to 690 V for current peak value n=30 rated value up to 1000 V for current peak value n=30 rated 	
 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 	
 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 up to 40 °C 	90 000 V·A
 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 up to 40 °C limited to 1 s switching at zero current maximum 	90 000 V·A 2 565 A; Use minimum cross-section acc. to AC-1 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 up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum 	90 000 V·A 2 565 A; Use minimum cross-section acc. to AC-1 rated value 1 654 A; Use minimum cross-section acc. to AC-1 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 up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum 	90 000 V·A 2 565 A; Use minimum cross-section acc. to AC-1 rated value 1 654 A; Use minimum cross-section acc. to AC-1 rated value 1 170 A; Use minimum cross-section acc. to AC-1 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 up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum 	90 000 V·A 2 565 A; Use minimum cross-section acc. to AC-1 rated value 1 654 A; Use minimum cross-section acc. to AC-1 rated value 1 170 A; Use minimum cross-section acc. to AC-1 rated value 729 A; Use minimum cross-section acc. to AC-1 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 up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum 	90 000 V·A 2 565 A; Use minimum cross-section acc. to AC-1 rated value 1 654 A; Use minimum cross-section acc. to AC-1 rated value 1 170 A; Use minimum cross-section acc. to AC-1 rated value 729 A; Use minimum cross-section acc. to AC-1 rated value

● 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	Acide
at 50 Hz rated value	23 26 V
at 60 Hz rated value	23 26 V
control supply voltage at DC	2020 V
rated value	23 26 V
operating range factor control supply voltage rated	20 20 V
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	0.2 11
• 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	2
instantaneous contact	
number of NO contacts for auxiliary contacts	2
instantaneous contact	
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 2 A
at 500 V rated value	2 A
at 690 V rated value	1 A
operational current at DC-12	10.4
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 2 A
 at 125 V rated value 	2 A
at 220 V rated value	1 A

In tody visited visue in tody visited visue if all V rated visue if all V rated visue if all V rated visue 2A if all V rated visue 0.3 A if all V rated visue 124 A if all V rated visue if all V rated V rated V rated V rated V	a at 600 V rated value	0.45.4			
 at 24 V tried value at 60 V rated value 2 A at 110 V rated value 1 A at 120 V rated value 0.3 A at 200 V rated value 0.3 A at 200 V rated value 0.3 A at 80 V rated value 0.3 A at 80 V rated value 0.3 A at 80 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UICSA rated value 124 A at 80 V rated value 125 A yielded mechanical performance (hp) of or singhesa AC motor 	at 600 V rated value	0.15 A			
 at 45 V rated value at 10 V rated value 1 A at 125 V rated value 0, 9 A at 250 V rated value 0, 3 A at 250 V rated value 0, 1 A contact reliability of auxiliary contacts 1 fully satching per 100 million (17 V, 1 mA) UC55 A ratings Full-load current FUA for 3-phase AC motor at 480 V rated value 125 A val 200 V rated value 125 A value 0 for single-phase AC motor 	•	10.4			
• at 16 V triad value 2 A • at 120 V rade value 0.9 A • at 220 V rade value 0.3 A • at 200 V rade value 0.3 A • at 200 V rade value 0.3 A • at 800 V rade value 0.1 A • at 800 V rade value 0.1 A • at 800 V rade value 1 faulty switching per 100 million (17 V, 1 mA) • 000 million (17 V, 1 mA) 0 VicSa rating • 100 V rade value 125 A • yielded mechanical performance (bp) • of a singhe-shase AC motor • - at 230 V rade value 25 hp • or at 3phese AC motor - at 200208 V rade value • at 300 V rade value 125 hp • or at 3phese AC motor - at 200208 V rade value • at 3200 V rade value 126 hp • or at 3phese AC motor - at 250000 trade value • at 575000 V rade value 126 hp • or short-circuit protection of the main dircuit - with type of coordination 1 required • with value of coordination 1 required gG: 325 A (880 V, 100 kA) • or short-circuit protection of the main dircuit - with type of assignment 2 required • or short-circuit protection of the main dircuit - with type of assignment 2 required • or short-circuit protection of the auxiliary switch e (580 V, 100 kA) • for short-circuit					
• at 110 V rated value 1 A • at 220 V rated value 0.3 A • at 600 V rated value 0.1 A contact relability of auxiliary contacts 1 faulty subching per 100 million (17 V, 1 mA) UUCSA ratings 124 A • at 400 V rated value 125 A • of single-phase AC motor 125 A • of roi single-phase AC motor 25 hp • of roi single-phase AC motor 40 hp - at 200230 V rated value 25 hp • of roi single-phase AC motor 40 hp - at 200230 V rated value 50 hp - at 45004203 V rated value 100 hp - at 45004200 V rated value 100 hp - at 45004200 V rated value 100 hp - at 45004200 V rated value 100 hp - at 450400 V rated value 100 hp - at 50500V rated value 100 hp - of rot short-circuit protection of the main circuit 9G: 355 A (690 V, 100 kA) of rot short-circuit protection of the aux					
• et 125 Y rated value 0.9 A • et 220 Y rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) full-oad current (FLA) for 3-phase AC motor 1 faulty switching per 100 million (17 V, 1 mA) full-oad current (FLA) for 3-phase AC motor 124 A • et 480 V rated value 125 A yielded mechanical performance (Ip)] • for single-phase AC motor - at 230 V rated value 25 hp • for 3-phase AC motor 40 hp - at 200220 V rated value 40 hp - at 200220 V rated value 50 hp - at 200230 V rated value 100 hp - at 450400 V rated value 125 hp contact rating of auxiliary contacts according to UL A600 / C600 Short-circuit protection gi: 355 A (690 V, 100 kA), abl: 200 A (690 V, 50 kA), B588: 250 A (415 V, 100 kA) - with type of assignment 2 required yi Sok (500 V, 100 kA), abl: 200 A (690 V, 50 kA), B588: 250 A (415 V, 100 kA) - with type of assignment 2 required yi Sok (500 V, 100 kA), abl: 200 A (690 V, 50 kA), B588: 250 A (415 V, 100 kA) - with type of assignment 2 required yi Sok (500 V, 100 kA), abl: 200 A (690 V, 50 kA), B588: 250 A (415 V, 100 kA) - with type of assignment 2 required yi Sok (500 V, 100 kA) - with type of assignment 2 required yi Sok (500 V, 100 kA) <t< td=""><td></td><td></td></t<>					
• 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 varings 124 A • at 600 V rated value 124 A • at 600 V rated value 125 A yielded mechanical performance [tp] • • for single-phase AC motor - - at 220 720 V rated value 25 hp • for 3-phase AC motor - - at 220230 V rated value 25 hp • of 3-phase AC motor - - at 460480 V rated value 25 hp • of solor 3-phase AC motor - - at 460480 V rated value 25 hp • of solor 3-phase AC motor - - at 460480 V rated value 125 hp • of solor 5-focul trotection of the main circuit - - with type of coordination 1 required GC 355 A (690 V, 100 kA) • of solor 5-focul protection of the main circuit - - with type of assignment 2 required GC 355 A (690 V, 100 kA), atl: 200 A (690 V, 50 kA), BS88; 250 A (415 V; 50 kA) • for short-circuit protection of the auxiliary switch required gC: 355 A (690 V, 100 kA), atl: 200 A (690 V, 50 kA), BS88; 250 A (415 V; 50 kA) • with type of assignment 2 required ycis kA • with type of assignment 2 required					
• at 600 V rated value 0.1 Å Contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mÅ) ULGSA ratings 1 full-bad current (FLA) for 3-phase AC motor 1 // A • at 800 V rated value 124 Å • at 600 V rated value 125 Å yielded mechanical performance [hp] • • for 3-phase AC motor - at 200208 V rated value 25 hp • for 3-phase AC motor - at 200208 V rated value 100 hp at 200208 V rated value 100 hp at 575600 V rated value 100 hp at 575600 V rated value 100 hp at 575600 V rated value 100 hp - with type of coordination 1 required gc: 355 A (890 V, 100 kA), abl: 200 A (690 V, 50 kA), BS8: 250 A (415 V, 50 kA) - with type of coordination 1 required gc: 250 A (590 V, 100 kA), abl: 200 A (690 V, 50 kA), BS8: 250 A (415 V, 50 kA) - for short-circuit protection of the anal circuit - - with type of ossignment 2 required gc: 250 A (590 V, 100 kA), abl: 200 A (690 V, 50 kA), BS8: 250 A (415 V, 50 kA) fastening method sate-20 with wertical mounting					
contect reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings Itally switching per 100 million (17 V, 1 mA) UL/CSA ratings 124 A • at 480 V rated value 125 A yleided mechanical performance [hp] 10 for single-phase AC motor					
UCCSA ratings full-add current (FLA) for 3-phase AC motor - at 4800 V rated value 124 A 125 A yiolded mechanical performance [thp] - or single-phase AC motor at 230 V rated value 25 hp if or single-phase AC motor at 200208 V rated value 40 hp at 200208 V rated value 50 hp					
full-load current (FLA) for 3-phase AC motor 124 A • at 480 V rated value 125 A yielded mechanical performance [hp] 125 h • for single-phase AC motor 25 hp • at 800 V rated value 25 hp • for 3-phase AC motor 40 hp - at 220/230 V rated value 50 hp - at 220/230 V rated value 50 hp - at 4575/600 V rated value 126 hp - at 675/600 V rated value 126 hp - at 675/600 V rated value 126 hp - at 575/600 V rated value 126 hp - at 575/600 V rated value 126 hp • for short-circuit protection of the main circuit 9G: 355 A (690 V, 100 kA) - with hpe of assignment 2 required V, 50 kA) • for short-circuit protection of the auxiliary switch required 9G: 10 A (500 V, 100 kA) • for short-circuit protection of the auxiliary switch required screw King * side-by-side mounting Yes height 172 mm width 122 mm width 120 mm - onwards 10 mm - onwards 10 mm - onwards 10 mm		1 faulty switching per 100 million (17 V, 1 mA)			
• at 480 V reted value 124 A • at 600 V rated value 125 A • for single-phase AC motor 25 hp - at 200/208 V rated value 25 hp • for 3-phase AC motor 40 hp - at 200/208 V rated value 50 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 460/480 V rated value 100 hp - at 575/600 V rated value 25 hp context rating of auxiliary contacts according to UL A60 / 2600 Short-circuit protection 40 hp - with hype of coordination 1 required 9G: 355 A (690 V, 100 kA) - with hype of coordination 1 required 9G: 10 A (500 V, 1 kA) - with hype of decoin of the auxiliary switch required required 9G: 10 A (500 V, 1 kA) Installator/ mounting / dimensions with vertical mounting surface +/-90° rotatable, with vertical mounting isde-by-side mounting Yes fastening method screew fining • side-by-side mounting 120 mm - forwards 20 mm - qowards 10 mm					
• 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 ofbase AC motor 60 hp - at 200208 V rated value 50 hp - at 200208 V rated value 50 hp - at 4201208 V rated value 50 hp - at 4201208 V rated value 125 hp contact rating of auxillary contacts according to UL A600 / 0600 Short-dircuit protection of the main circuit - with type of coordination 1 required - with type of coordination 1 required gG: 355 A (690 V, 100 kA), at: 200 A (690 V, 50 kA), BS88: 250 A (415 V; 50 kA) • for short-dircuit protection of the auxiliary switch required gG: 10 A (500 V, 10 kA), at: 200 A (690 V, 50 kA), BS88: 250 A (415 V; 50 kA) • for short-dircuit protection of the auxiliary switch required yeis to A (690 V, 100 kA), at: 200 A (690 V, 50 kA), BS88: 250 A (415 V; 50 kA) • for short-dircuit protection of the auxiliary switch required yeis to A (690 V, 100 kA), at: 200 A (690 V, 50 kA), BS88: 250 A (415 V; 50 kA) • for short-dircuit protection of the auxiliary switch required yeis to A (690 V, 100 kA), at: 200 A (690 V, 50 kA), BS88: 250 A (415 V; 50 kA) • for short-dircuit protection of the auxiliary switch required yeis to A (690 V, 100 kA), at: 200 A (690 V, 50 kA), BS88: 250 A (415 V; 50 kA) • for short-dircuit protection of the auxiliary switch required yeis to A (690 V, 100 kA),	full-load current (FLA) for 3-phase AC motor				
yielded mechanical performance [hp] for single-phase AC motor - at 230 V rated value 25 hp for 3-phase AC motor - at 220/230 V rated value 50 hp - at 220/230 V rated value 50 hp - at 450/480 V rated value 100 hp - at 2575600 V rated value 100 hp - at 450/480 V rated value 100 hp - at 450/480 V rated value 100 hp - at 450/480 V rated value 126 hp - contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of assignment 2 required gG: 250 A (690 V, 100 kA), atk: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 100 A (500 V, 1 kA) addition/ mounting dimensions mounting position suffield to the final mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tittable to the final mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tittable to the final mounti					
for single-phase AC motor	at 600 V rated value	125 A			
- at 230 V rated value 25 hp • for 3-phase AC motor - at 220/280 V rated value 50 hp - at 460/480 V rated value 50 hp - at 450/480 V rated value 100 hp - at 4575/800 V rated value 200 mp - at 575/800 V rated value 200 mm Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of contraination 1 required gG: 355 A (690 V, 100 kA) gG: 255 A (690 V, 100 kA), aff. 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) • for short-circuit protection of the auxiliary switch required spacing • with vertical mounting surface +/40° rotatable, with vertical mounting surface +/- 22.5° tittable to the front and back screev fixing • side-by-side mounting • with self-scale and the self multiple • for grounded parts - forwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 10 mm	yielded mechanical performance [hp]				
• for 3-phase AC motor - at 200208 V rated value 40 hp - at 200208 V rated value 50 hp - - at 460/480 V rated value 100 hp - - at 457/5600 V rated value 125 hp - contact rating of auxillary contacts according to UL A600 / Q600 - Short-circuit protection design of the fuse link - • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of coordination 1 required gG: 355 A (690 V, 100 kA), ath: 200 A (690 V, 50 kA), BS8: 250 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22 5° tittable to the front and back fastening method screw fixing • side-by-side mounting Yes height 172 mm width 120 mm depth 170 mm required spacing 0 mm • toring the parts - - forwards 20 mm - upwards 10 mm - downward	 for single-phase AC motor 				
- at 200208 V rated value 40 hp - at 220220 V rated value 50 hp - at 200208 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 Gesign of the fuse link • for short-circuit protection of the main circuit	— at 230 V rated value	25 hp			
	 for 3-phase AC motor 				
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 / C600 Short-circuit protection design of the fuse link 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), B588: 250 A (415 V, 50 kA), with type of assignment 2 required gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), B588: 250 A (415 V, 50 kA), or short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 10 kA), aM: 200 A (690 V, 50 kA), B588: 250 A (415 V, 50 kA), B588: 250 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required gG: 20 A (690 V, 100 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) • for short-circuit protection gG: 10 A (500 V, 1 kA) • for short-circuit protection gG: 10 A (500 V, 10 kA), aM: 200 A (690 V, 50 kA), B588: 250 A (415 V, 50 kA) • for short-circuit protection gG: 10 A (500 V, 10 kA) • for short-circuit protection gG: 10 A (500 V, 10 kA) • for short-circuit protecircuit protection gG: 10 A (500 V, 10 kA) <td>— at 200/208 V rated value</td> <td>40 hp</td>	— at 200/208 V rated value	40 hp			
	— at 220/230 V rated value	50 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) 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, 10k A) gG: 10 A (500 V, 10k A)	— at 460/480 V rated value	100 hp			
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 required mounting position with vertical mounting / dimensions mounting position • side-by-side mounting • equired spacing • with side-by-side mounting - qownards - qownards - downwards - forwards - downwards - forwards - downwards - forwards - forwards - downwards - downwards - forwards - forwards - forwards - forwards - forwards - downwards - forwards - forwards - forwards - forwards - downwards 10 mm - forwards - forwards - forwards - forward	— 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) gG: 250 A (690 V, 100 kA), atl: 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) 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 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 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) 	Short-circuit protection				
- 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) Installation/mounting/ dimensions with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back fastening method screw fixing • side-by-side mounting Yes height 172 mm width 120 mm depth 170 mm required spacing 0 mm • with side-by-side mounting 0 mm - forwards 20 mm - downwards 10 mm - at the side 0 mm • for grounded parts 10 mm - downwards 10 mm - at the side 10 mm - forwards 10 mm - downwards 10 mm - at the side 10 mm - forwards 20 mm - at the side 10 mm - downwards 10 mm - at the side 10 mm - at the side 10 mm - forwards 10 mm - at the side 10 mm - at the side 10 mm	design of the fuse link				
- 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) Installation/mounting/ dimensions with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back fastening method screw fixing • side-by-side mounting Yes height 172 mm width 120 mm depth 170 mm required spacing 0 mm • with side-by-side mounting 0 mm - forwards 20 mm - downwards 10 mm - at the side 0 mm • for grounded parts 10 mm - downwards 10 mm - at the side 10 mm - forwards 10 mm - downwards 10 mm - at the side 10 mm - forwards 20 mm - at the side 10 mm - downwards 10 mm - at the side 10 mm - at the side 10 mm - forwards 10 mm - at the side 10 mm - at the side 10 mm	 for short-circuit protection of the main circuit 				
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) Installation/mounting/ dimensions with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back fastening method screw fixing • side-by-side mounting Yes height 172 mm width 120 mm depth 170 mm required parcing 0 mm - forwards 20 mm - gounded parts 0 mm - forwards 10 mm - forwards 10 mm - at the side 0 mm - oforwards 10 mm - oforwards 10 mm - at the side 10 mm		gG: 355 A (690 V, 100 kA)			
Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable, with vertical mounting fastening method screw fixing • side-by-side mounting Yes height 172 mm width 120 mm depth 170 mm required spacing • • with side-by-side mounting 20 mm - forwards 20 mm - downwards 10 mm - downwards 0 mm - at the side 0 mm - forwards 20 mm - at the side 0 mm - forwards 10 mm - downwards 10 mm - forwards 20 mm - at the side 0 mm - forwards 20 mm - at the side 10 mm - downwards 10 mm - downwards 10 mm - forwards 20 mm - at the side 10 mm - downwards 10 mm - at the side 10 mm - at the side 10 mm <		gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415			
mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back fastening method 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 - growards 10 mm - downwards 10 mm - at the side 0 mm - forwards 20 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 20 mm - at the side 10 mm - downwards 10 mm - downwards 10 mm - at the side 10 mm - at the side 10 mm - at the side <td></td> <td>gG: 10 A (500 V, 1 kA)</td>		gG: 10 A (500 V, 1 kA)			
surface +/- 22.5° tiltable to the front and back fastening method screw fixing • side-by-side mounting Yes height 172 mm width 120 mm depth 170 mm required spacing 0 mm • with side-by-side mounting 20 mm - forwards 10 mm - upwards 10 mm - at the side 0 mm - forwards 20 mm - at the side 0 mm - at the side 0 mm - at the side 10 mm - at the side 10 mm - downwards 10 mm - at the side 10 mm - downwards 10 mm - at the side 10 mm - downwards 10 mm - downwards 10 mm - at the side 10 mm - downwards 10 mm - forwards 20 mm - at the side 10 mm - downwards 10 mm - at the side 10 mm	Installation/ mounting/ dimensions				
• side-by-side mounting Yes height 172 mm width 120 mm depth 170 mm required spacing • with side-by-side mounting - forwards 20 mm - downwards 10 mm - at the side 0 mm • for grounded parts 20 mm - upwards 10 mm - at the side 0 mm • for grounded parts 20 mm - upwards 10 mm - at the side 0 mm • for grounded parts 10 mm - downwards 10 mm - at the side 10 mm - downwards 10 mm - at the side 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 10 mm	mounting position				
height 172 mm width 120 mm depth 170 mm required spacing 170 mm • with side-by-side mounting 170 mm - forwards 20 mm - upwards 10 mm - advmwards 10 mm - at the side 0 mm • for grounded parts 20 mm - upwards 10 mm - at the side 0 mm • for grounded parts 20 mm - at the side 0 mm • for grounded parts 10 mm - at the side 10 mm - forwards 10 mm - downwards 10 mm - at the side 10 mm	fastening method	screw fixing			
width 120 mm depth 170 mm required spacing 170 mm • with side-by-side mounting 20 mm - forwards 20 mm - upwards 10 mm - downwards 10 mm - downwards 0 mm - downwards 0 mm - for grounded parts 20 mm - forwards 20 mm - forwards 10 mm - at the side 0 mm - downwards 10 mm - forwards 20 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 10 mm	 side-by-side mounting 	Yes			
depth 170 mm required spacing - • with side-by-side mounting - - forwards 20 mm - upwards 10 mm - downwards 0 mm - at the side 0 mm • for grounded parts - - forwards 20 mm - at the side 0 mm • for grounded parts 10 mm - at the side 10 mm - downwards 10 mm - at the side 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 20 mm - forwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 10 mm - at the side 10 mm - at the side 10 mm	height	172 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 0 mm - forwards 20 mm - norwards 20 mm - at the side 0 mm • for grounded parts 10 mm - at the side 10 mm - at the side 10 mm - at the side 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - for wards 20 mm - upwards 10 mm - forwards 10 mm - forwards 10 mm - at the side 10 mm - at the side 10 mm - at the side 10 mm	width	120 mm			
with side-by-side mounting forwards 20 mm upwards 10 mm downwards 10 mm downwards 0 mm at the side 0 mm for grounded parts - forwards 20 mm for grounded parts - forwards 20 mm downwards 10 mm downwards 10 mm - at the side 10 mm - at the side 10 mm - at the side 10 mm - downwards 10 mm - at the side 10 mm - downwards 10 mm - at the side 10 mm - downwards 10 mm - at the side 10 mm - at th	depth	170 mm			
forwards20 mm upwards10 mm downwards0 mm at the side0 mm• for grounded parts20 mm forwards20 mm upwards10 mm at the side10 mm at the side10 mm downwards20 mm forwards10 mm at the side10 mm downwards10 mm forwards20 mm forwards10 mm downwards10 mm at the side10 mm	required spacing				
- upwards10 mm- downwards0 mm- at the side0 mm• for grounded parts20 mm- forwards20 mm- upwards10 mm- at the side10 mm- downwards10 mm- forwards20 mm- downwards10 mm- downwards10 mm- forwards20 mm- forwards10 mm- forwards10 mm- forwards10 mm- at the side10 mm- at the side10 mm- downwards10 mm- at the side10 mm- at the side10 mm	 with side-by-side mounting 				
- downwards10 mm- at the side0 mm• for grounded parts0 mm- forwards20 mm- upwards10 mm- at the side10 mm- downwards10 mm- forwards20 mm- downwards10 mm- at the side10 mm- at the side10 mm- downwards10 mm- forwards20 mm- forwards10 mm- at the side10 mm	— forwards	20 mm			
at the side0 mm• for grounded parts20 mm forwards20 mm upwards10 mm at the side10 mm downwards10 mm• for live parts20 mm forwards20 mm upwards10 mm at the side10 mm forwards20 mm at the side10 mm	— upwards	10 mm			
 for grounded parts for wards forwards upwards at the side downwards for live parts for wards for wards for mm for wards for live parts for wards for mm downwards for mm for wards for mm forwards for mm forwards for mm downwards for mm downwards for mm for mm<	— downwards	10 mm			
- forwards20 mm- upwards10 mm- at the side10 mm- downwards10 mm- for live parts forwards20 mm- upwards10 mm- upwards10 mm- at the side10 mm- at the side10 mm- gownwards10 mm- upwards10 mm- gownwards10 mm- at the side10 mm- at the side10 mm	— at the side	0 mm			
- forwards20 mm- upwards10 mm- at the side10 mm- downwards10 mm- for live parts forwards20 mm- upwards10 mm- upwards10 mm- at the side10 mm- at the side10 mm- gownwards10 mm- upwards10 mm- gownwards10 mm- at the side10 mm- at the side10 mm	 for grounded parts 				
upwards10 mm at the side10 mm downwards10 mm• for live parts forwards20 mm upwards10 mm downwards10 mm at the side10 mm at the side10 mm at the side10 mm		20 mm			
at the side 10 mm downwards 10 mm • for live parts - forwards 20 mm upwards 10 mm upwards 10 mm downwards 10 mm at the side 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 10 mm	•				
• for live parts 20 mm - forwards 20 mm - upwards 10 mm - downwards 10 mm - at the side 10 mm Connections/ Terminals 10 mm					
forwards 20 mm upwards 10 mm downwards 10 mm at the side 10 mm Connections/ Terminals 10 mm					
upwards 10 mm downwards 10 mm at the side 10 mm Connections/ Terminals 10 mm		20 mm			
- downwards 10 mm - at the side 10 mm Connections/ Terminals type of electrical connection	101110100				
— at the side 10 mm Connections/ Terminals type of electrical connection	— upwards	10 mm			
Connections/ Terminals type of electrical connection	•				
type of electrical connection	— downwards	10 mm			
	— downwards — at the side	10 mm			
	 downwards at the side Connections/ Terminals 	10 mm			
		10 mm 10 mm			



for smiller							
 for auxiliary and 				-type terminals			
	auxiliary contacts			-type terminals			
of magnet coil	1 4		Screw	Screw-type terminals			
	conductor cross-sec	lions					
 for main contact 	cts						
— stranded			max. 1x 50, 1x 70 mm²				
	nded with core end proc	-		max. 1x 50, 1x 70 mm ²			
•	nded without core end p	processing		max. 1x 50, 1x 70 mm ²			
 at AWG cables 	for main contacts		2x 1/0	2x 1/0			
connectable conduc contacts	connectable conductor cross-section for main contacts						
 stranded 			16 70 mm²				
 finely stranded 	with core end processi	ng	16 1	70 mm²			
 finely stranded 	without core end proce	ssing	16 1	16 70 mm ²			
-	ctor cross-section for	-	-				
 solid or strande 	ed		0.5	4 mm²			
 finely stranded 	with core end processi	ng		2.5 mm ²			
	conductor cross-sec	0					
 for auxiliary cor 							
- solid			2x (0)	$5 1.5 \text{ mm}^2$ 2x (0.74	5 2.5 mm²), max. 2x	$(0.75 - 4 \text{ mm}^2)$	
— solid or str	randed				5 2,5 mm²), max. 2x		
	nded with core end proc	ressing		5 1,5 mm²), 2x (0,73		(0,70 + mm)	
-		Jessing					
AWG number a	at AWG cables for auxiliary contacts AWG number as coded connectable conductor		2x (20) 16), 2x (18 14), 14			
	auxiliary contacts						
Safety related data							
B10 value with high d	lemand rate acc. to SN	31920	1 000	000			
product function							
• mirror contact acc. to IEC 60947-4-1		Yes					
 positively driver 	• positively driven operation acc. to IEC 60947-5-1		No				
protection class IP	protection class IP on the front acc. to IEC 60529		IP20				
touch protection on	touch protection on the front acc. to IEC 60529		finger-safe, for vertical contact from the front				
suitability for use safe	ety-related switching OF	F	Yes				
Certificates/ approval	ls						
General Product Ap	oproval					EMC	
Contraining						2	
SP CEA		(ال س		<u>KC</u>	EAC		
Declaration of Conf	formity	Test Certifica	ates		Marine / Shipping		
~ ~	Miscellaneous	Special Te		Type Test			
		Certificate	<u>e</u>	Certificates/Test <u>Report</u>		(0-0)	
EG-Konf.				Report	ABS	RMRS	
Marine / Shipping	othor					Pailway	
manne / Snipping	other					Railway	
DNV-GL	<u>Confirmation</u>	<u>Miscellanec</u>	<u>ous</u>	<u>Confirmation</u>	<u>Miscellaneous</u>	<u>Special Test</u> <u>Certificate</u>	

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=3RT1054-1AB36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1054-1AB36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-1AB36

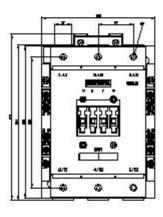
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

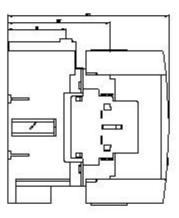
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1054-1AB36&lang=en

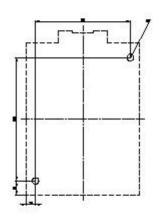
Characteristic: Tripping characteristics, I²t, Let-through current

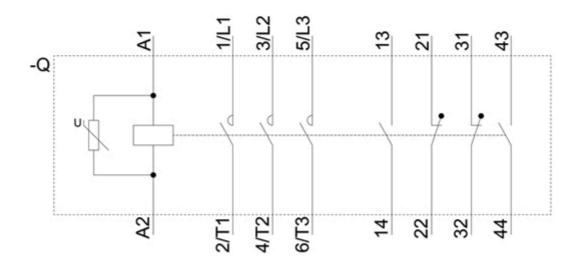
https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-1AB36/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1054-1AB36&objecttype=14&gridview=view1









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