SIEMENS

Data sheet

3RT1056-2AF36



Power contactor, AC-3 185 A, 90 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 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		
auxiliary switch	Yes		
power loss [W] for rated value of the current at AC in hot operating state	39 W		
per pole	13 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 %		
relative humidity at 55 °C acc. to IEC 60068-2-30	95 %		

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	215 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	215 A
— up to 690 V at ambient temperature 60 °C rated value	185 A
— up to 1000 V at ambient temperature 40 °C rated value	100 A
— up to 1000 V at ambient temperature 60 °C rated value	100 A
• at AC-3	
— at 400 V rated value	185 A
— at 500 V rated value	185 A
— at 690 V rated value	170 A
— at 1000 V rated value	65 A
• at AC-4 at 400 V rated value	160 A
at AC-5a up to 690 V rated value	189 A
• at AC-5b up to 400 V rated value	153 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	157 A
— up to 400 V for current peak value n=20 rated value	157 A
— up to 500 V for current peak value n=20 rated value	157 A
— up to 690 V for current peak value n=20 rated value	157 A
 up to 1000 V for current peak value n=20 rated value at AC-6a 	65 A
 at AC-ba — up to 230 V for current peak value n=30 rated value 	105 A
 — up to 400 V for current peak value n=30 rated value 	105 A
 — up to 500 V for current peak value n=30 rated value 	105 A
 — up to 690 V for current peak value n=30 rated value 	105 A
 up to 1000 V for current peak value n=30 rated value 	65 A
minimum cross-section in main circuit at maximum AC-1 rated value	95 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	81 A
at 690 V rated value	65 A
operational current	
• at 1 current path at DC-1	100.1
— 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
	0.75 A
— at 600 V rated value	0.73 A
— at 600 V rated value operating power	0.13A
	0.73 A
operating power	55 kW
operating power • at AC-3	
 operating power at AC-3 at 230 V rated value 	55 kW
operating power • at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value	55 kW 90 kW 132 kW 160 kW
operating power • at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value	55 kW 90 kW 132 kW
operating power • at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value	55 kW 90 kW 132 kW 160 kW
operating power • at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 1000 V rated value operating power for approx. 200000 operating cycles	55 kW 90 kW 132 kW 160 kW
operating power • at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 1000 V rated value operating power for approx. 200000 operating cycles at AC-4	55 kW 90 kW 132 kW 160 kW 90 kW
 operating power at AC-3 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 1000 V rated value operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value 	55 kW 90 kW 132 kW 160 kW 90 kW
 operating power at AC-3 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 1000 V rated value Operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value at 400 V rated value 	55 kW 90 kW 132 kW 160 kW 90 kW
 operating power at AC-3 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 1000 V rated value operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value at 690 V rated value 	55 kW 90 kW 132 kW 160 kW 90 kW 45 kW 65 kW
 operating power at AC-3 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value at 400 V rated value at 690 V rated value operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value 	55 kW 90 kW 132 kW 160 kW 90 kW 45 kW 65 kW
 operating power at AC-3 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 1000 V rated value operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value 	55 kW 90 kW 132 kW 160 kW 90 kW 45 kW 65 kW 60 000 kV·A 100 000 V·A
 operating power at AC-3 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 1000 V rated value operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value 	55 kW 90 kW 132 kW 160 kW 90 kW 45 kW 65 kW 60 000 kV·A 100 000 V·A 130 000 V·A
 operating power at AC-3 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 1000 V rated value operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value operating apparent power at AC-6a up to 230 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 	55 kW 90 kW 132 kW 160 kW 90 kW 45 kW 65 kW 60 000 kV·A 100 000 V·A 130 000 V·A 180 000 V·A
 operating power at AC-3 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 1000 V rated value operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value operating apparent power at AC-6a up to 230 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 	55 kW 90 kW 132 kW 160 kW 90 kW 45 kW 65 kW 60 000 kV·A 100 000 V·A 130 000 V·A 180 000 V·A
 operating power at AC-3 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 1000 V rated value operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value operating apparent power at AC-6a up to 230 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 	55 kW 90 kW 132 kW 160 kW 90 kW 45 kW 65 kW 60 000 kV·A 100 000 V·A 130 000 V·A 130 000 V·A 180 000 V·A
 operating power at AC-3 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value up to 500 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 1000 V for current peak value n=20 rated value up to 230 V for current peak value n=30 rated value 	55 kW 90 kW 132 kW 160 kW 90 kW 45 kW 65 kW 60 000 kV·A 100 000 V·A 130 000 V·A 130 000 V·A 110 000 V·A
 operating power at AC-3 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value at 690 V rated value operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value up to 500 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 1000 V for current peak value n=30 rated value up to 230 V for current peak value n=30 rated value 	55 kW 90 kW 132 kW 160 kW 90 kW 45 kW 65 kW 60 000 kV·A 100 000 V·A 130 000 V·A 130 000 V·A 110 000 V·A
 operating power at AC-3 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 1000 V rated value operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value operating apparent power at AC-6a up to 230 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 1000 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value 	55 kW 90 kW 132 kW 160 kW 90 kW 45 kW 65 kW 60 000 kV·A 100 000 V·A 130 000 V·A 130 000 V·A 180 000 V·A 110 000 V·A 110 000 V·A 90 000 V·A
 operating power at AC-3 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 1000 V rated value operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value operating apparent power at AC-6a up to 230 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 500 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 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 	55 kW 90 kW 132 kW 160 kW 90 kW 45 kW 65 kW 60 000 kV·A 100 000 V·A 130 000 V·A 130 000 V·A 110 000 V·A 110 000 V·A 110 000 V·A 110 000 V·A 120 000 V·A
 operating power at AC-3 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at 1000 V rated value operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value up to 500 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 500 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 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 	55 kW 90 kW 132 kW 160 kW 90 kW 45 kW 65 kW 60 000 kV·A 100 000 V·A 130 000 V·A 130 000 V·A 110 000 V·A 110 000 V·A 110 000 V·A 110 000 V·A 110 000 V·A
 operating power at AC-3 at 230 V rated value at 400 V rated value at 400 V rated value at 690 V rated value at 690 V rated value at 1000 V rated value operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value up to 500 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=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 500 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 500 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 1000 V for current peak value n=30 rated value up to 1000 V for current peak value n=30 rated value 	55 kW 90 kW 132 kW 160 kW 90 kW 45 kW 65 kW 60 000 kV·A 100 000 V·A 130 000 V·A 130 000 V·A 110 000 V·A 110 000 V·A 110 000 V·A 2 900 A; Use minimum cross-section acc. to AC-1 rated value
 operating power at AC-3 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at 1000 V rated value operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value up to 500 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 500 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 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 	55 kW 90 kW 132 kW 160 kW 90 kW 45 kW 65 kW 60 000 kV·A 100 000 V·A 130 000 V·A 130 000 V·A 110 000 V·A 110 000 V·A 110 000 V·A 110 000 V·A 110 000 V·A

 limited to 30 s switching at zero current maximum 	968 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 60 s switching at zero current maximum 	801 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	300 1/h			
• at AC-3 maximum	750 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				
• at 50 Hz rated value	110 127 V			
at 60 Hz rated value	110 127 V			
control supply voltage at DC	110127 V			
• rated value	110 127 V			
operating range factor control supply voltage rated	110 127 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			
● at 60 Hz	300 V·A			
inductive power factor with closing power of the coil				
• at 50 Hz	0.9			
• at 60 Hz	0.9			
apparent holding power of magnet coil at AC				
• at 50 Hz	5.8 V·A			
• at 60 Hz	5.8 V·A			
inductive power factor with the holding power of the	0.0 V / (
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				
number of NC contacts for auxiliary contacts	2			
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	40.4			
• 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			
 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	180 A			
at 600 V rated value	192 A			
yielded mechanical performance [hp]				
• for single-phase AC motor				
- at 230 V rated value	30 hp			
for 3-phase AC motor	50 Hp			
- at 200/208 V rated value	60 hp			
— at 220/200 V rated value				
	75 hp			
— at 460/480 V rated value	150 hp			
— at 575/600 V rated value	200 hp			
contact rating of auxiliary contacts according to UL	200 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 — with type of coordination 1 required — with type of assignment 2 required	A600 / Q600 gG: 355 A (690 V, 100 kA) gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 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: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 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: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 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	A600 / Q600 gG: 355 A (690 V, 100 kA) gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA) gG: 10 A (500 V, 1 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	A600 / Q600 gG: 355 A (690 V, 100 kA) gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 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	A600 / Q600 gG: 355 A (690 V, 100 kA) gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 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: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 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: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 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	A600 / Q600 gG: 355 A (690 V, 100 kA) gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 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	A600 / Q600 gG: 355 A (690 V, 100 kA) gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 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: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 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: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 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			
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— forwards	20 mm				
— upwards	20 mm 10 mm				
— downwards	10 mm				
— at the side	10 mm				
Connections/ Terminals					
width of connection bar	17 mm				
	17 mm				
thickness of connection bar	3 mm				
diameter of holes	9 mm				
number of holes type of electrical connection	1				
for main current circuit	Connection has				
	Connection bar				
for auxiliary and control circuit	spring-loaded terminals				
at contactor for auxiliary contacts	Spring-type terminals				
of magnet coil	Spring-type terminals				
type of connectable conductor cross-sections	4 050 kmmil				
at AWG cables for main contacts	4 250 kcmil				
connectable conductor cross-section for main contacts					
stranded	25 120 mm²				
connectable conductor cross-section for auxiliary contacts					
solid or stranded	0.25 2.5 mm²				
 finely stranded with core end processing 	0.25 1.5 mm ²				
 finely stranded with core end processing finely stranded without core end processing 	0.25 2.5 mm ²				
type of connectable conductor cross-sections	0.20 2.0 mm				
for auxiliary contacts					
- solid	2x (0.25 2.5 mm²)				
— solid or stranded	2x (0.25 2.5 mm ²)				
 finely stranded with core end processing 	2x (0.25 1.5 mm ²)				
 finely stranded without core end processing at AWG cables for auxiliary contacts 	2x (0.25 2.5 mm ²)				
AWG cables for auxiliary contacts AWG number as coded connectable conductor cross	2x (24 14)				
section					
 for auxiliary contacts 	24 14				
Safety related data					
product function mirror contact acc. to IEC 60947-4-1	Yes				
B10 value with high demand rate acc. to SN 31920	1 000 000				
product function positively driven operation acc. to IEC	No				
60947-5-1					
protection class IP on the front acc. to IEC 60529	IP00; IP20 with box terminal/cover				
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover				
suitability for use					
safety-related switching OFF	Yes				
Certificates/ approvals					
General Product Approval	EMC				
Functional Safety/Safety of Test Certificates Machinery	Marine / Shipping				

<u>Type Examination</u> <u>Certificate</u>	<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report	ABS	RMRS	DNV-GL
other				Railway	
Miscellaneous	Confirmation	Confirmation	Miscellaneous	<u>Special Test Certific-</u> <u>ate</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=3RT1056-2AF36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1056-2AF36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1056-2AF36

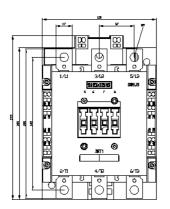
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

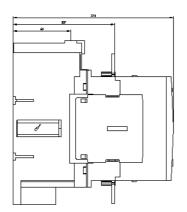
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1056-2AF36&lang=en

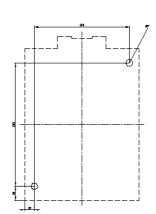
Characteristic: Tripping characteristics, I²t, Let-through current

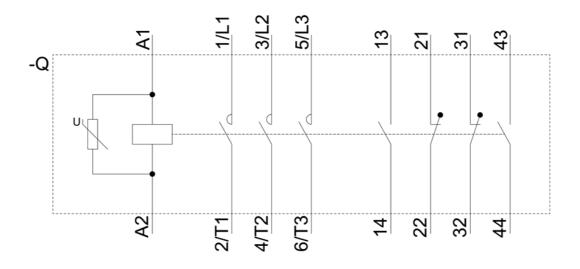
https://support.industry.siemens.com/cs/ww/en/ps/3RT1056-2AF36/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1056-2AF36&objecttype=14&gridview=view1









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