SIEMENS

product brand name

Data sheet 3RT1066-6AB36

SIRIUS



power contactor, AC-3 300 A, 160 kW / 400 V, AC (50-60 Hz) / DC operation 23-26 V AC/DC auxiliary contacts 2 NO + 2 NC 3-pole, frame size S10 busbar connections drive: conventional screw terminal

product brand name	SIKIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S10
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 	66 W
 at AC in hot operating state per pole 	22 W
 without load current share typical 	7.4 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
 of auxiliary circuit with degree of pollution 3 rated value 	500 V
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 according 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 according to IEC 81346-2	Q
Substance Prohibitance (Date)	05/01/2012
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 according to IEC 60068-2-30 maximum	95 %
/ain 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
at AC-3e rated value maximum	1 000 V
operational current	1 000 V
• at AC-1 at 400 V at ambient temperature 40 °C	330 A
rated value • at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	330 A
up to 690 V at ambient temperature 60 °C rated value	300 A
— up to 1000 V at ambient temperature 40 °C rated value	150 A
 up to 1000 V at ambient temperature 60 °C rated value 	150 A
• at AC-3	
— at 400 V rated value	300 A
— at 500 V rated value	300 A
— at 690 V rated value	280 A
— at 1000 V rated value	95 A
• at AC-3e	
— at 400 V rated value	300 A
— at 500 V rated value	300 A
— at 1000 V rated value	95 A
 at AC-4 at 400 V rated value 	280 A
 at AC-5a up to 690 V rated value 	290 A
at AC-5b up to 400 V rated valueat AC-6a	249 A
 up to 230 V for current peak value n=20 rated value 	292 A
 up to 400 V for current peak value n=20 rated value 	292 A
— up to 500 V for current peak value n=20 rated value	292 A
 — up to 690 V for current peak value n=20 rated value — up to 1000 V for current peak value n=20 rated 	280 A 95 A
value • at AC-6a	95 A
— up to 230 V for current peak value n=30 rated value	195 A
 up to 400 V for current peak value n=30 rated value 	195 A
— up to 500 V for current peak value n=30 rated value	195 A
— up to 690 V for current peak value n=30 rated value	195 A
— up to 1000 V for current peak value n=30 rated value	95 A
minimum cross-section in main circuit at maximum AC-1 rated value	185 mm²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	125 A
at 690 V rated value	115 A
operational current	
at 1 current path at DC-1	
 at 24 V rated value 	300 A

alt 240 V rated value		
art 600 V rated value		
- with 2 current paths in series at DC-1 - at 24 V rated value - at 110 V rated value - at 220 V rated value - at 400 V rated value - at 400 V rated value - at 400 V rated value - at 500 V rated value - at 500 V rated value - at 100 V rated value - at 440 V rated value - at 440 V rated value - at 100 V rated value - at 110 V rated value - at 500 V rated value - at 100 V rated value - at 500 V rated value - at 100 V rated value - at		
		0.6 A
	•	
with 3 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value — at 120 V rated value — at 420 V rated value — at 600 V rated value — at 600 V rated value — at 22 V rated value — at 220 V rated value — at 110 V rated value — at 440 V rated value — at 440 V rated value — at 440 V rated value — at 600 V		
		2 A
	-	
■ 11 current path at DC-3 at DC-5 —at 124 V rated value —at 110 V rated value —at 440 V rated value —at 440 V rated value —at 440 V rated value —at 600 V rated value —at 110 V rated value —at 120 V rated value —at 220 V rated value —at 110 V rated value —at 120 V rated value —at 220 V rated value —at 120 V rated value —at 110 V rated value —at 140 V rated value —at 600 V rated value —at 690 V rated value —at 690 V rated value —at 690 V rated value —at 500 V rated value —at 500 V rated value —at 500 V rated value —at 600		
- at 1 current path at DC-3 at DC-5 - at 24 V rated value 3 A A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A		
		5.2 A
	-	
at 440 V rated value at 600 V rated value at 600 V rated value at 22 U rated value at 220 V rated value at 600 V rated value at 600 V rated value at 24 V rated value at 25 V rated value at 25 V rated value at 26 V rated value at 26 V rated value at 27 V rated value at 28 V rated value at 28 V rated value at 29 V rated value at 20 V rated value		
■ with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value 300 A — at 24 V rated value 300 A — at 220 V rated value 2.5 A — at 440 V rated value 0.85 A — at 440 V rated value 0.37 A • with 3 current paths in series at DC-3 at DC-5 300 A — at 24 V rated value 300 A — at 220 V rated value 300 A — at 220 V rated value 300 A — at 440 V rated value 300 A — at 440 V rated value 0.75 A • at AC-3 4 A — at 600 V rated value 90 kW — at 230 V rated value 200 kW — at 500 V rated value 250 kW — at 690 V rated value 250 kW — at 700 V rated value 90 kW — at 230 V rated value 90 kW — at 400 V rated value 100 kW — at 500 V rated value 200 kW — at 500 V rated value 100 kW — at 600 V rated value 100 kW — at 230 V roted value 200 kW — at 230 V roted value		
with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 110 V rated value — at 1220 V rated value — at 220 V rated value — at 600 V rated value — at 74 V rated value — at 110 V rated value — at 110 V rated value — at 220 V rated value — at 220 V rated value — at 800 V rated value — at 600 V rated value — at 230 V rated value — at 600 V rated value — at 230 V rated value — at 400 V rated value — at 400 V rated value — at 600 V rocurent peak value n=20 rated value — up to 400 V for current peak value n=20 rated value — up to 600 V for current peak value n=20 rated value — up to 600 V for current peak value n=20 rated value — up to 600 V for current peak value n=20 rated value — up to 600 V for current peak value n=20 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=		
at 24 V rated value 300 A at 110 V rated value 300 A at 220 V rated value 2.5 A at 440 V rated value 0.85 A at 600 V rated value 0.87 A with 3 current paths in series at DC-3 at DC-5 at 24 V rated value 300 A at 110 V rated value 300 A at 110 V rated value 300 A at 220 V rated value 300 A at 440 V rated value 1.4 A at 600 V rated value 9.75 A operating power at 420 V rated value 90 kW at 400 V rated value 160 kW at 500 V rated value 250 kW at 500 V rated value 250 kW at 690 V rated value 132 kW at 690 V rated value 150 kW at 400 V rated value 160 kW at 400 V rated value 160 kW at 400 V rated value 160 kW at 500 V rated value 160 kW at 500 V rated value 170 kW at 400 V rated value 170 kW at 400 V rated value 150 kW at 500 kW at 500 V rated value 150 kW at 500 kW at 500 V rated value 150 kW at 500 kW		U.125 A
- at 110 V rated value 2.5 A - at 220 V rated value 0.65 A - at 440 V rated value 0.85 A - at 4600 V rated value 0.37 A • with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value 300 A - at 110 V rated value 300 A - at 110 V rated value 300 A - at 220 V rated value 300 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 90 kW - at 400 V rated value 160 kW - at 500 V rated value 200 kW - at 500 V rated value 200 kW - at 500 V rated value 132 kW • at AC-3e - at 230 V rated value 90 kW - at 1000 V rated value 250 kW - at 1000 V rated value 132 kW • at AC-3e - at 230 V rated value 90 kW - at 400 V rated value 150 kW - at 400 V rated value 200 kW - at 400 V rated value 200 kW - at 400 V rated value 200 kW - at 1000 V rated value 152 kW operating apparent power at AC-8a • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 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 400 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 • up to 400 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 • up to 400 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 • up to 400 V for curren		200 A
- at 220 V rated value - at 440 V rated value - at 600 V rated value - at 600 V rated value - at 24 V rated value - at 24 V rated value - at 24 V rated value - at 110 V rated value - at 220 V rated value - at 220 V rated value - at 440 V rated value - at 600 V rated value - at 600 V rated value - at 600 V rated value - at 300 A - at 420 V rated value - at 600 V rated value - at 600 V rated value - at 600 V rated value - at 1000 V rated value - at 400 V rated value - at 400 V rated value - at 400 V rated value - at 500 V rated value - at 500 V rated value - at 1000 V rated value - at 400 V rated value - at 500 V rated value - at 600 V rated value -		
- at 440 V rated value - at 600 V rated value		
■ with 3 current paths in series at DC-3 at DC-5 ■ at 24 V rated value ■ at 110 V rated value ■ at 220 V rated value ■ at 440 V rated value ■ at 440 V rated value ■ at 440 V rated value ■ at AC-3 □ at 230 V rated value ■ at 400 V rated value ■ at 400 V rated value ■ at 500 V rated value ■ at 690 V rated value ■ at 690 V rated value ■ at 400 V rated value ■ at 1000 V rated value ■ at 230 V rated value ■ at 400 V rated value ■ at 500 V rated value		
• with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 460 V rated value — at 600 V rated value — at 800 V rated value — at 500 V rated value — at 600 V rated value — at 800 V rated value — at 1000 V rated value — at 230 V rated value — at 400 V rated value — at 1000 V rated value — at 500 V rated value — at 500 V rated value — at 500 V rated value — at 1000 V rated value — at 1000 V rated value — at 500 V rated value — at 500 V rorded value — at 600 V rated value — at 600 V rorded value — at 600 V ro		
at 24 V rated value 300 A 3		0.37 A
- at 110 V rated value		200 A
- at 220 V rated value		
at 440 V rated value		
operating power		
• at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — at 1000 V rated value — at 1000 V rated value — at 1000 V rated value — at 230 V rated value — at 230 V rated value — at 400 V rated value — at 400 V rated value — at 1000 V rated value		0.73 A
- at 230 V rated value 90 kW - at 400 V rated value 160 kW - at 500 V rated value 220 kW - at 690 V rated value 250 kW - at 1000 V rated value 132 kW • at AC-3e - at 230 V rated value 90 kW - at 400 V rated value 200 kW - at 400 V rated value 90 kW - at 400 V rated value 160 kW - at 1000 V rated value 200 kW - at 1000 V rated value 132 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 71 kW • at 690 V rated value 112 kW 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 1000 V for current peak value n=20 rated value • up to 500 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=20 rated value • up to 500 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 • up to 400 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 • up to 400 V for current peak value n=30 rated value		
- at 400 V rated value 200 kW - at 500 V rated value 250 kW - at 690 V rated value 132 kW • at AC-3e - at 230 V rated value 90 kW - at 400 V rated value 160 kW - at 400 V rated value 160 kW - at 500 V rated value 160 kW - at 1000 V rated value 132 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 71 kW • at 690 V rated value 112 kW 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 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=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 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 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value		90 kW
- at 500 V rated value 250 kW - at 690 V rated value 132 kW • at AC-3e - at 230 V rated value 90 kW - at 400 V rated value 160 kW - at 500 V rated value 160 kW - at 1000 V rated value 132 kW • at 690 V rated value 132 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 71 kW • at 690 V rated value 112 kW 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 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=20 rated value • up to 230 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=20 rated value • up to 230 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 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 400 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 • up to 400 V for current peak value n=30 rated value		
- at 690 V rated value - at 1000 V rated value 132 kW at AC-3e - at 230 V rated value 90 kW - at 400 V rated value 160 kW - at 500 V rated value 200 kW - at 1000 V rated value 132 kW operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value 112 kW operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value up to 400 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=20 rated value up to 500 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=20 rated value up to 230 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 400 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 up to 400 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 up to 400 V for current peak value n=30 rated value		
- at 1000 V rated value • at AC-3e - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 1000 V rated value - at 1000 V rated value 200 kW - at 1000 V rated value 132 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value 112 kW operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value • 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=20 rated value • up to 230 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 400 V for current peak value n=30 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 130 000 VA		
at AC-3e — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 1000 V rated value — at 1000 V rated value operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value 112 kW 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 690 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 1000 V for current peak value n=30 rated value 1000 VA 1000 VA 130 000 VA		
- at 230 V rated value - at 400 V rated value 200 kW - at 1000 V rated value 2132 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 71 kW • at 690 V rated value 112 kW 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 230 V for current peak value n=20 rated value • up to 500 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=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 400 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 • up to 400 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 • up to 400 V for current peak value n=30 rated value		
- at 400 V rated value - at 500 V rated value 200 kW - at 1000 V rated value 132 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value 112 kW 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 230 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 400 V for current peak value n=30 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 130 000 VA		90 kW
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— at 1000 V rated value operating power for approx. 200000 operating cycles at AC-4		
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operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value • 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 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value 110 000 kVA 250 000 VA 160 000 VA 160 000 VA 160 000 VA		
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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 130 000 VA		
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 up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value 130 000 VA 		
• up to 400 V for current peak value n=30 rated value 130 000 VA		70 000 VA

	000 000 1/4		
• up to 690 V for current peak value n=30 rated value	230 000 VA		
 up to 1000 V for current peak value n=30 rated value 	160 000 VA		
short-time withstand current in cold operating state			
up to 40 °C			
 limited to 1 s switching at zero current maximum 	5 524 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 5 s switching at zero current maximum 	4 579 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 10 s switching at zero current maximum 	3 153 A; Use minimum cross-section acc. to AC-1 rated value		
limited to 30 s switching at zero current maximum	1 883 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 60 s switching at zero current maximum 	1 445 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	2 000 1/11		
• at AC-1 maximum	750 1/h		
• at AC-2 maximum	250 1/h		
• at AC-3 maximum	500 1/h		
• at AC-3e maximum	500 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	23 26 V		
at 60 Hz rated value	23 26 V		
control supply voltage at DC			
rated value	23 26 V		
operating range factor control supply voltage rated value of magnet coil at DC			
• initial value	0.8		
full-scale value	1.1		
operating range factor control supply voltage rated value of magnet coil at AC			
• at 50 Hz	0.8 1.1		
• at 60 Hz	0.8 1.1		
design of the surge suppressor	with varistor		
apparent pick-up power of magnet coil at AC			
• at 50 Hz	590 VA		
• at 60 Hz	590 VA		
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	6.7 VA		
• at 60 Hz	6.7 VA		
inductive power factor with the holding power of the coil	0.7 V/		
• at 50 Hz	0.9		
• at 60 Hz	0.9		
closing power of magnet coil at DC	650 W		
holding power of magnet coil at DC	7.4 W		
	7.7 11		
closing delay	20 05 mg		
• at AC	30 95 ms		
• at DC	30 95 ms		
opening delay	4000		
• at AC	40 80 ms		
• at DC	40 80 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	40.4	
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	40.4	
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)	
JL/CSA ratings		
full-load current (FLA) for 3-phase AC motor	200 4	
at 480 V rated value	302 A	
at 600 V rated value	289 A	
yielded mechanical performance [hp]		
• for 3-phase AC motor	400 !	
— at 200/208 V rated value	100 hp	
— at 220/230 V rated value	125 hp	
— at 460/480 V rated value	250 hp	
— at 575/600 V rated value	300 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: 500 A (690 V, 100 kA)	
with type of coordination is required - with type of assignment 2 required	gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415	
— with type of assignment 2 required	gg: 400 A (690 V, 100 kA), alvi: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)	
for short-circuit protection of the auxiliary switch	gG: 10 A (500 V, 1 kA)	
required		
nstallation/ mounting/ dimensions		
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	210 mm	
width	145 mm	
	202 mm	
depth		
required spacing		
required spacing • with side-by-side mounting		
required spacing • with side-by-side mounting — forwards	20 mm	
required spacing • with side-by-side mounting — forwards — upwards	20 mm 10 mm	
required spacing • with side-by-side mounting — forwards — upwards — downwards	20 mm 10 mm 10 mm	
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side	20 mm 10 mm	
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts	20 mm 10 mm 10 mm 0 mm	
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side	20 mm 10 mm 10 mm	

— at the side	10 mm	
— downwards		
for live parts	10 mm	
— forwards	20 mm	
— upwards — downwards	10 mm 10 mm	
— at the side		
Connections/ Terminals	10 mm	
type of electrical connection	Connection has	
for main current circuit for qualifier and control circuit	Connection bar	
for auxiliary and control circuit	screw-type terminals	
at contactor for auxiliary contacts	Screw-type terminals	
of magnet coil	Screw-type terminals	
width of connection bar	25 mm	
thickness of connection bar	6 mm	
diameter of holes	11 mm	
number of holes	1	
type of connectable conductor cross-sections		
at AWG cables for main contacts	2/0 500 kcmil	
connectable conductor cross-section for main contacts		
• stranded	70 240 mm²	
connectable conductor cross-section for auxiliary contacts		
 solid or stranded 	0.5 4 mm²	
finely stranded with core end processing	0.5 2.5 mm²	
type of connectable conductor cross-sections		
 for auxiliary contacts 		
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)	
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)	
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 1x 12	
AWG number as coded connectable conductor cross section		
 for auxiliary contacts 	18 14	
Safety related data		
product function		
 mirror contact according to IEC 60947-4-1 	Yes	
 positively driven operation according to IEC 60947- 5-1 	No	
B10 value with high demand rate according to SN 31920	1 000 000	
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover	
touch protection on the front according 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





Confirmation



<u>KC</u>



Functional EMC Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
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Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

Test Certificates

Marine / Shipping

Miscellaneous











other

Railway

Confirmation

Miscellaneous

Miscellaneous

Confirmation

Special Test Certific-

<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=3RT1066-6AB36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1066-6AB36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-6AB36

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

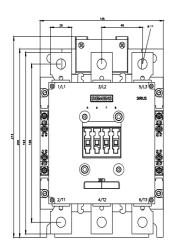
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1066-6AB36&lang=en

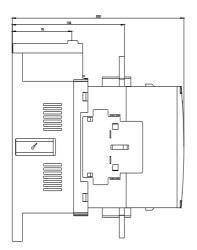
Characteristic: Tripping characteristics, I2t, Let-through current

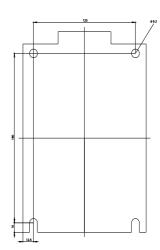
 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-6AB36/char}$

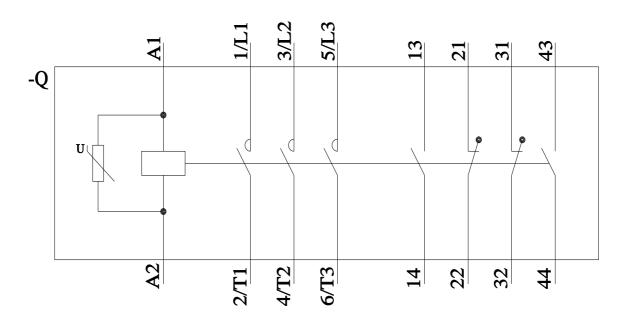
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1066-6AB36&objecttype=14&gridview=view1









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