SIEMENS

Data sheet 3RT1065-6AR36



power contactor, AC-3e/AC-3 265 A, 132 kW / 400 V AC (50-60 Hz) / DC Uc: 440-480 V 3-pole, auxiliary contacts 2 NO + 2 NC drive: conventional main circuit: busbar control and auxiliary circuit: screw terminal

product brand name	SIRIUS
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 	54 W
 at AC in hot operating state per pole 	18 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 protective separation 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 (operating 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
SVHC substance name	Blei - 7439-92-1
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	95 %

maximum	
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] total	580 kg
Global Warming Potential [CO2 eq] during manufacturing	26.3 kg
Global Warming Potential [CO2 eq] during manufacturing Global Warming Potential [CO2 eq] during operation	559 kg
Global Warming Potential [CO2 eq] after end of life	-4.89 kg
Main circuit	-4.05 kg
	2
number of poles for main current circuit number of NO contacts for main contacts	3
	3
operating voltageat AC-3 rated value maximum	1 000 V
at AC-3 rated value maximum 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 rated value 	330 A
 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 at AC-3 	150 A
— at 400 V rated value	265 A
— at 500 V rated value	265 A
— at 690 V rated value	265 A
— at 1000 V rated value	95 A
• at AC-3e	
— at 400 V rated value	265 A
— at 500 V rated value	265 A
— at 690 V rated value	265 A
— at 1000 V rated value	95 A
• at AC-4 at 400 V rated value	230 A
• at AC-5a up to 690 V rated value	290 A
• at AC-5b up to 400 V rated value	219 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	265 A
— up to 400 V for current peak value n=20 rated value	265 A
— up to 500 V for current peak value n=20 rated value	265 A
— up to 690 V for current peak value n=20 rated value	265 A
 up to 1000 V for current peak value n=20 rated value 	95 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	184 A
— up to 400 V for current peak value n=30 rated value	184 A
— up to 500 V for current peak value n=30 rated value	184 A
— up to 690 V for current peak value n=30 rated value	184 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	117 A
at 690 V rated value	105 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	33 A

at 500 V rated value	— at 220 V rated value	3.8 A
• with 2 current paths in series at DC-1 — at 24 V rated value — at 00 V rated value — at 110 V rated value — at 20 V rated value — at 20 V rated value — at 600 V rated value — at 24 V rated value — at 25 V rated value — at 26 V rated value — at 27 V rated value — at 28 V rated value — at 29 V rated value — at 20 V rated value — at 40 V rated value — at 40 V rated value — at 40 V rated value — at 50 V rated value — at 600 V rated v		
		0.6 A
	•	
• with 3 current paths in series at DC-1 — 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 11 A — at 600 V rated value 11 A — at 600 V rated value 5.2 A • at 1 current path at DC-3 at DC-5 — at 24 V rated value 11 A — at 110 V rated value 11 A — at 110 V rated value 30 A — at 220 V rated value 3A — at 220 V rated value 0.6 A — at 444 0 V rated value 0.18 A — at 440 V rated value 0.18 A — at 1440 V rated value 0.18 A — at 440 V rated value 0.18 A — at 600 V rated value 0.05 A • with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value 300 A — at 60 V rated value 300 A — at 60 V rated value 300 A — at 200 V rated value 0.55 A — at 440 V rated value 0.55 A — at 420 V rated value 0.57 A • with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value 0.57 A • with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value 300 A — at 600 V rated value 300 A — at 400 V rated value 300 A — at 600 V rated value		
- at 24 V rated value		2 A
	· · · · · · · · · · · · · · · · · · ·	
at 220 V rated value		
at 440 V rated value 5.2 A - at 1600 V rated value 5.2 A - at 24 V rated value 300 A - at 60 V rated value 11 A - at 10 V rated value 31 A - at 220 V rated value 33 A - at 220 V rated value 0.18 A - at 440 V rated value 0.18 A - at 440 V rated value 0.18 A - at 420 V rated value 0.18 A - at 420 V rated value 0.18 A - at 420 V rated value 300 A - at 440 V rated value 300 A - at 500 V rated value 300 A - at 600 V rated value 300 A - at 600 V rated value 300 A - at 600 V rated value 300 A - at 500 V rated value 300 A - at 220 V rated value 300 A - at 500 V rated value 300 A - at 220 V rated value 300 A - at 440 V rated value 300 A - at 500 V rated value 320 W - at 400 V rated value 320 W - at 600 V rated value 320 W - at		
■ at 1 current path at DC-3 at DC-5 ■ at 24 V rated value ■ at 60 V rated value ■ at 60 V rated value ■ at 100 V rated value ■ at 100 V rated value ■ at 220 V rated value ■ at 440 V rated value ■ at 440 V rated value ■ at 260 V rated value ■ at 440 V rated value ■ at 260 V rated value ■ at 260 V rated value ■ at 27 value ■ at 28 V rated value ■ at 28 V rated value ■ at 28 V rated value ■ at 29 V rated value ■ at 20 V rated value ■ at 28 V rated value ■ at 28 V rated value ■ at 28 V rated value ■ at 29 V rated value ■ at 24 V rated value ■ at 25 V rated value ■ at 20 V rated value ■ at 40 V rated value ■ at 500 V rated value ■ at 500 V rated value ■ at 500 V rated value ■ at 40 V rated value ■ at 500 V rated value ■ at		
• at 1 current path at DC-3 at DC-5 — at 24 V rated value — at 60 V rated value — at 220 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 500 V rated value — at 500 V rated value — at 600 V rated value		
at 24 V rated value 11 A 11		5.2 A
at 10 V rated value 3 A 3 A 3 A 3 A 3 A A 3 A A A A A A A	·	
- at 110 V rated value		
- at 220 V rated value		
- at 440 V rated value		
■ at 600 V rated value ■ with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 600 V rated value — at 600 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 60 V rated value — at 110 V rated value — at 60 V rated value — at 60 V rated value — at 122 V rated value — at 110 V rated value — at 120 V rated value — at 220 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 500 V rated value — at 30 V rated value — at 690 V rated value — at 690 V rated value — at 1000 V rated value — at 320 V rated value — at 500 V rated value — at 690 V rated value — at 1000 V rated value — at 690 V rated value — at 500 V rated value — at 690 V rated value — at 500 V rated value — at 5		
• with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value 300 A — at 110 V rated value 2.5 A — at 440 V rated value 0.65 A — at 60 V rated value 2.5 A — at 440 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 110 V rated value 300 A — at 440 V rated value 300 A — at 400 V rated value 300 A — at 220 V rated value 300 A — at 220 V rated value 300 A — at 400 V rated value 1.4 A — at 600 V rated value 1.4 A — at 600 V rated value 1.5 kW — at 400 V rated value 1.5 kW — at 690 V rated value 1.5 kW — at 500 V rated value 1.5 kW — at 690 V rated value 1.5 kW — at 500 V rated value 1.5 kW — at 500 V rated value 1.5 kW — at 690 V rated value 1.5 kW — at 1000 V rated value 1.5 kW — at 500 V rated value 1.5 kW — at 400 V rated value 1.5 kW — at 1000 V rated value 1.5 kW — at 500 V rated value 1.5 kW		
- at 24 V rated value 300 A - at 60 V rated value 2.5 A - at 440 V rated value 0.65 A - at 440 V rated value 0.65 A - at 60 V rated value 0.30 A - at 22 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 300 A - at 100 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 220 V rated value 300 A - at 440 V rated value 1.4 A - at 600 V rated value 1.4 A - at 600 V rated value 1.4 A - at 500 V rated value 1.4 A - at 600 V rated value 1.4 A - at 600 V rated value 1.5 kW - at 400 V rated value 1.5 kW - at 690 V rated value 1.5 kW - at 690 V rated value 1.5 kW - at 400 V rated value 1.5 kW - at 1000 V rated value 1.5 kW		0.125 A
- at 60 V rated value 300 A - at 110 V rated value 2.5 A - at 220 V rated value 0.65 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 300 A - at 110 V rated value 300 A - at 220 V rated value 300 A - at 250 V rated value 300 A - at 250 V rated value 1.4 A - at 600 V rated value 1.4 A - at 600 V rated value 1.5 A operating power • at AC-3 - at 230 V rated value 132 kW - at 500 V rated value 250 kW - at 1000 V rated value 132 kW • at 630 V rated value 132 kW - at 690 V rated value 132 kW • at 630 V rated value 132 kW - at 1000 V rated value 132 kW • at AC-3e - at 230 V rated value 132 kW - at 400 V rated value 132 kW - at 400 V rated value 132 kW - at 500 V rated value 132 kW - at 400 V rated value 250 kW - at 1000 V rated value 132 kW - at 400 V rated value 132 kW - at 400 V rated value 150 kW - at 1000 V rated value 150 kW	· · · · · · · · · · · · · · · · · · ·	
- at 110 V rated value 300 A - at 220 V rated value 2.5 A - at 440 V rated value 0.65 A - at 600 V rated value 3.07 A • with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value 300 A - at 60 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 1.4 A - at 600 V rated value 1.5 A operating power • at AC-3 - at 230 V rated value 132 kW - at 400 V rated value 150 kW - at 690 V rated value 150 kW - at 500 V rated value 150 kW - at 500 V rated value 152 kW - at 1000 V rated value 152 kW - at 1000 V rated value 152 kW - at 690 V rated value 152 kW - at 400 V rated value 152 kW - at 400 V rated value 152 kW - at 690 V rated value 152 kW - at 400 V rated value 152 kW - at 1000 V rated value 160 kW - at 690 V rated value 152 kW - at 1000 V rated value 152 kW		
- at 220 V rated value 2.5 A 0.65 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 300 A - at 60 V rated value 300 A - at 10 V rated value 300 A - at 220 V rated value 300 A - at 220 V rated value 300 A - at 24 V v rated value 300 A - at 440 V rated value 1.4 A - at 600 V rated value 1.4 A - at 400 V rated value 1.4 A - at 400 V rated value 1.5 kW - at 400 V rated value 1.5 kW - at 400 V rated value 1.5 kW - at 500 V rated value 1.5 kW - at 500 V rated value 1.5 kW - at 1000 V rated value 1.5 kW - at 400 V rated value 1.5 kW - at 1000 V rated valu		
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 300 A at 60 V rated value 300 A at 110 V rated value 300 A at 120 V rated value 300 A at 420 V rated value 1.4 A at 600 V rated value 0.75 A Operating power ■ at AC-3 at 230 V rated value 75 kW at 400 V rated value 132 kW at 500 V rated value 250 kW at 1000 V rated value 132 kW ■ at AC-3e at 230 V rated value 132 kW ■ at AC-3e at 230 V rated value 132 kW ■ at AC-3e at 230 V rated value 132 kW ■ at AC-3e at 250 V rated value 132 kW ■ at AC-3e at 250 V rated value 132 kW ■ at AC-3e at 690 V rated value 132 kW ■ at AC-3e at 690 V rated value 132 kW ■ at AC-3e at 690 V rated value 132 kW ■ at AC-3e at 690 V rated value 132 kW ■ at AC-3e at 250 V rated value 150 kW at 1000 V rated value 150 kW		
 at 600 V rated value with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 600 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 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 690 V rated value — at 750 V rated value — at 230 V rated value — at 230 V rated value — at 690 V rated value		
with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value 300 A — at 60 V rated value 300 A — at 220 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 75 kW — at 400 V rated value 132 kW — at 500 V rated value 160 kW — at 690 V rated value 250 kW — at 1000 V rated value 132 kW • at AC-3e — at 230 V rated value 132 kW — at 690 V rated value 132 kW • at 600 V rated value 152 kW • at 1000 V rated value 152 kW • at 7000 V rated value 152 kW • at 400 V rated value 152 kW • at 600 V rated value 152 kW — at 1000 V rated value 152 kW Operating power for approx. 200000 operating cycles at AC-		
- at 24 V rated value 300 A - at 60 V rated value 300 A - at 110 V rated value 300 A - at 220 V rated value 300 A - at 220 V rated value 1.4 A - at 600 V rated value 0.75 A operating power ■ at AC-3 - at 230 V rated value 75 kW - at 400 V rated value 132 kW - at 500 V rated value 160 kW - at 690 V rated value 250 kW - at 1000 V rated value 132 kW ■ at AC-3e ■ at 230 V rated value 132 kW ■ at 400 V rated value 132 kW ■ at 690 V rated value 132 kW ■ at 1000 V rated value 132 kW ■ at AC-3e ■ at 230 V rated value 132 kW ■ at AC-3e ■ at 230 V rated value 250 kW - at 400 V rated value 250 kW - at 400 V rated value 132 kW ■ at AC-3e ■ at 230 V rated value 250 kW - at 400 V rated value 132 kW ■ at 500 V rated value 132 kW ■ at 690 V rated value 132 kW ■ at 690 V rated value 150 kW - at 1000 V rated value 150 kW		0.37 A
- at 60 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	•	200 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 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 75 kW at 400 V rated value 160 kW at 690 V rated value 250 kW at 1000 V rated value 132 kW ■ at AC-3e at 230 V rated value 132 kW at 400 V rated value 132 kW at 500 V rated value 132 kW ■ at AC-3e at 230 V rated value 75 kW at 400 V rated value 132 kW ■ at 400 V rated value 152 kW at 690 V rated value 150 kW at 690 V rated value 150 kW at 1000 V rated value 152 kW operating power for approx. 200000 operating cycles at AC-		
- at 440 V rated value		
— at 600 V rated value 0.75 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 — at 1000 V rated value at AC-3e — 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 — at 1000 V rated value — at 1000 V rated value 132 kW operating power for approx. 200000 operating cycles at AC- 132 kW		
operating power		
■ at AC-3 — at 230 V rated value		0.73 A
- at 230 V rated value 75 kW - at 400 V rated value 132 kW - at 500 V rated value 250 kW - at 1000 V rated value 132 kW ■ at AC-3e - at 230 V rated value 75 kW - at 400 V rated value 132 kW - at 400 V rated value 132 kW - at 500 V rated value 132 kW - at 500 V rated value 150 kW - at 690 V rated value 150 kW - at 690 V rated value 150 kW - at 1000 V rated value 150 kW		
- at 400 V rated value - at 500 V rated value 160 kW - at 690 V rated value 250 kW - at 1000 V rated value 132 kW ■ at AC-3e - at 230 V rated value 75 kW - at 400 V rated value 132 kW - at 500 V rated value 160 kW - at 690 V rated value 250 kW - at 690 V rated value 132 kW - at 690 V rated value 132 kW - at 1000 V rated value 132 kW - at 1000 V rated value 132 kW		75 kW
- at 500 V rated value - at 690 V rated value 250 kW - at 1000 V rated value 132 kW ■ at AC-3e - at 230 V rated value 75 kW - at 400 V rated value 132 kW - at 500 V rated value 160 kW - at 690 V rated value 250 kW - at 1000 V rated value 132 kW operating power for approx. 200000 operating cycles at AC-		
- at 690 V rated value 250 kW - at 1000 V rated value 132 kW ■ at AC-3e - at 230 V rated value 75 kW - at 400 V rated value 132 kW - at 500 V rated value 160 kW - at 690 V rated value 250 kW - at 1000 V rated value 132 kW operating power for approx. 200000 operating cycles at AC-		
- at 1000 V rated value ■ at AC-3e - 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-		
— at 230 V rated value 75 kW — at 400 V rated value 132 kW — at 500 V rated value 160 kW — at 690 V rated value 250 kW — at 1000 V rated value 132 kW Operating power for approx. 200000 operating cycles at AC-		, , , , , , , , , , , , , , , , , , ,
- at 400 V rated value 132 kW - at 500 V rated value 160 kW - at 690 V rated value 250 kW - at 1000 V rated value 132 kW operating power for approx. 200000 operating cycles at AC-		75 kW
- at 500 V rated value 160 kW - at 690 V rated value 250 kW - at 1000 V rated value 132 kW operating power for approx. 200000 operating cycles at AC-		
- at 690 V rated value 250 kW - at 1000 V rated value 132 kW operating power for approx. 200000 operating cycles at AC-		
— at 1000 V rated value 132 kW operating power for approx. 200000 operating cycles at AC-		
operating power for approx. 200000 operating cycles at AC-		
• at 400 V rated value 66 kW	• at 400 V rated value	66 kW
• at 690 V rated value 102 kW	at 690 V rated value	102 kW
operating apparent power at AC-6a	operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value 100 000 kVA	• up to 230 V for current peak value n=20 rated value	100 000 kVA
• up to 400 V for current peak value n=20 rated value 180 000 VA	• up to 400 V for current peak value n=20 rated value	180 000 VA
• up to 500 V for current peak value n=20 rated value 220 000 VA	• up to 500 V for current peak value n=20 rated value	220 000 VA
• up to 690 V for current peak value n=20 rated value 310 000 VA	 up to 690 V for current peak value n=20 rated value 	310 000 VA
• up to 1000 V for current peak value n=20 rated value 160 000 VA	• up to 1000 V for current peak value n=20 rated value	160 000 VA

operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	70 000 VA
 up to 400 V for current peak value n=30 rated value 	120 000 VA
 up to 500 V for current peak value n=30 rated value 	150 000 VA
 up to 690 V for current peak value n=30 rated value 	220 000 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 	4 880 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	4 045 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	2 785 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	1 664 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 60 s switching at zero current maximum	1 276 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	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	440 480 V
at 60 Hz rated value	440 480 V
control supply voltage at DC rated value	
•	440 480 V
operating range factor control supply voltage rated value of magnet coil at DC	
• initial value	0.8
• full-scale value	1.1
operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 1.1
● at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
apparent pick-up power	
 at minimum rated control supply voltage at AC 	
— at 50 Hz	490 VA
— at 60 Hz	490 VA
 at maximum rated control supply voltage at AC 	
— at 60 Hz	590 VA
— at 50 Hz	590 VA
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	
 at minimum rated control supply voltage at DC 	6.1 VA
 at maximum rated control supply voltage at DC 	7.4 VA
apparent holding power	
at minimum rated control supply voltage at AC	
— at 50 Hz	5.6 VA
— at 60 Hz	5.6 VA
at maximum rated control supply voltage at AC	
— at 50 Hz	6.7 VA
— at 60 Hz	6.7 VA
inductive power factor with the holding power of the coil	

	0.0
• 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
closing delay	
• at AC	30 95 ms
• at DC	30 95 ms
opening delay	
• 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 instantaneous contact	2
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	6 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	10 A
at 48 V rated value	6 A
at 60 V rated value	6 A
at 110 V rated value	3 A
at 125 V rated value	2 A
at 123 V rated value at 220 V rated value	1A
at 600 V rated value	0.15 A
	V.10 A
operational current at DC-13	40 A
• 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	1.4
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	240 A
at 600 V rated value	242 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	
— at 200/208 V rated value	75 hp
— at 220/230 V rated value	100 hp
— at 460/480 V rated value	200 hp
— at 575/600 V rated value	250 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 assignment 2 required	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50
e for short circuit protection of the applicant suitable required	kA)
for short-circuit protection of the auxiliary switch required Installation/mounting/dimensions	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
	undote the fresh and buok

• fastening method	screw fixing
 fastening method side-by-side mounting 	Yes
height	210 mm
width	145 mm
depth	202 mm
required spacing	
 with side-by-side mounting 	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
• for grounded parts	
— forwards	20 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
• for live parts	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
— at the side Connections/ Terminals	TO HILL
type of electrical connection	
for main current 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	
for 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 mm ²
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)
for 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
suitability for use safety-related switching OFF	Yes; applies only to contactor operating mechanism
B10 value with high demand rate according to SN 31920	1 000 000
IEC 61508	
T1 value	
for proof test interval or service life according to IEC 61508	20 a
Electrical Safety	
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
Approvals Certificates	go. sale, for volucia contact from the front with box terminal/cover
Tipprovais octanicates	

General Product Approval









Confirmation



General Product Approval

Functional Saftey

Test Certificates

Marine / Shipping

KC



Type Examination Certificate Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping









Miscellaneous

other

Confirmation

other

Railway

Environment

Miscellaneou:

Confirmation

Special Test Certificate

EPD Typ II/III (with life cylce assessment)

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RT1065-6AR36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1065-6AR36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-6AR36

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

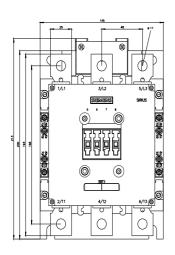
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1065-6AR36\&lang=en}}$

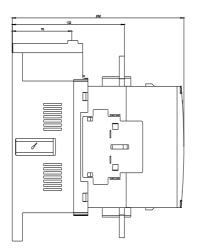
Characteristic: Tripping characteristics, I^2t , Let-through current

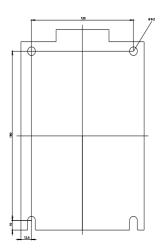
https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-6AR36/char

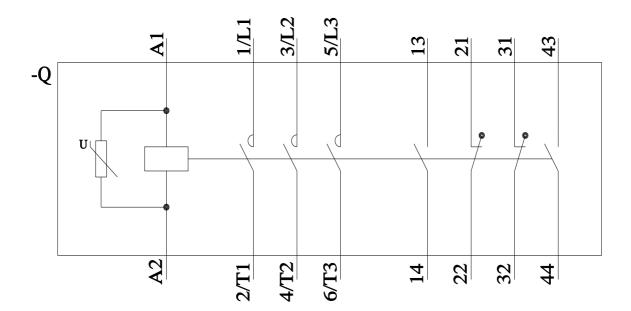
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1065-6AR36&objecttype=14&gridview=view1









last modified: 12/19/2023 🖸

