SIEMENS

Data sheet 3RT1065-6AD36



power contactor, AC-3 265 A, 132 kW / 400 V AC (50-60 Hz) / DC operation 42-48 V AC/DC auxiliary contacts 2 NO + 2 NC 3-pole, frame size S10 busbar connections drive: conventional screw terminal

product brand name	SIRIUS	
product designation	Power contactor	
product type designation	3RT1	
Seneral 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 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 %		
lain circuit			
number of poles for main current circuit	3		
number of NO contacts for main contacts	3		
operating voltage	3		
at 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	330 A		
rated value	000 A		
• at AC-1			
— up to 690 V at ambient temperature 40 °C	330 A		
rated value			
— up to 690 V at ambient temperature 60 °C	300 A		
rated value			
— up to 1000 V at ambient temperature 40 °C	150 A		
rated value — up to 1000 V at ambient temperature 60 °C	150 A		
rated value	100 Λ		
• at AC-3			
— 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 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	210 A		
— up to 230 V for current peak value n=20 rated	265 A		
value	200 A		
— up to 400 V for current peak value n=20 rated	265 A		
value			
— up to 500 V for current peak value n=20 rated	265 A		
value	200.4		
 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	95 A		
value	00 N		
• at AC-6a			
— up to 230 V for current peak value n=30 rated	184 A		
value			
— up to 400 V for current peak value n=30 rated	184 A		
value			
— up to 500 V for current peak value n=30 rated	184 A		
value	19.4 Λ		
 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	95 A		
value			
minimum cross-section in main circuit at maximum AC-1	185 mm²		
rated value			
operational current for approx. 200000 operating cycles at AC-4			
at 400 V rated value	117 A		
at 690 V rated value at 690 V rated value	105 A		
	100 Λ		
operational current			
at 1 current path at DC-1 at 241/ rated value.	200 A		
— at 24 V rated value	300 A		

with 2 current paths in series at DC-1		
		0.6 A
	·	000.4
with 3 current paths in series at DC-1		
at 24 V rated value 300 A 3		2 A
at 110 V rated value	•	
- at 600 V rated value		
- at 12 V rated value 300 A 30		
		5.2 A
	•	
at 440 V rated value at 600 V rated value at 600 V rated value at 100 V rated value at 110 V rated value at 120 V rated value at 120 V rated value at 25 V rated value at 26 V rated value at 27 V rated value at 28 V rated value at 100 V rated value at 20 V rated value at 20 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 110 V rated value 2.5 A — at 220 V rated value 2.5 A — at 40 V rated value 0.65 A — at 600 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 220 V rated value 300 A — at 220 V rated value 300 A — at 220 V rated value 300 A — at 230 V rated value 1.4 A — at 600 V rated value 9.75 kW — at 400 V rated value 152 kW — at 400 V rated value 152 kW — at 699 V rated value 152 kW — at 1000 V rated value 152 kW — at 400 V rated value 152 kW — at 500 V rated value 150 kW — at 690 V rated value 150 kW — at 690 V rated value 150 kW — at 900 V rated value 150 kW — at 900 V rated value 150 kW — at 500 V rated value 150 kW — at 1000 V rated value 150 kW — at 500 V rated value 150 kW — at 500 V rated value 150 kW — at 600 V rated value 150		
• with 2 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 600 V rated value — at 110 V rated value — at 110 V rated value — at 1220 V rated value — at 1220 V rated value — at 220 V rated value — at 600 V rated value — at 75 kW — at 75		
at 24 V rated value 300 A 3		U.125 A
at 110 V rated value	·	000 4
at 220 V rated value		
- at 440 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 400 V rated value — at 600 V rated value — at 600 V rated value — at 400 V rated value — at 600 V rated value — at 1000 V rated value — at 1000 V rated value — at 230 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 400 V rated value — at 500 V rated value — at 600 V rated value — at 500 V rated value — at 1000 V rated value — at 1000 V rated value — at 600 V rated value — at 1000 V rated value — at 1000 V rated value — at 500 V		
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 600 V rated value — at 600 V rated value — at 4230 V rated value — at 400 V rated value — at 690 V rated value — at 690 V rated value — at 1000 V rated value — at 230 V rated value — at 320 V rated value — at 230 V rated value — at 1000 V rated value — at 230 V rated value — at 320 V rated value — at 230 V rated value — at 400 V rated value — at 400 V rated value — at 400 V rated value — at 1000 V rated value — at 1000 V rated value — at 660 V rat		
- at 24 V rated value 300 A - at 110 V rated value 300 A - at 220 V rated value 1.4 A - at 2600 V rated value 0.75 A operating power • at AC-3 - at 230 V rated value 152 kW - at 400 V rated value 160 kW - at 400 V rated value 150 kW - at 500 V rated value 150 kW - at 1000 V rated value 150 kW - at 1000 V rated value 152 kW • at AC-3 - at 230 V rated value 152 kW - at 400 V rated value 152 kW • at AC-3e - at 230 V rated value 152 kW • at AC-4 - at 400 V rated value 160 kW - at 1000 V rated value 160 kW - at 400 V rated value 160 kW - at 400 V rated value 160 kW - at 1000 V rated value 160 kW - at 400 V rated value 180 kW - a		0.37 A
- at 110 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 132 kW - at 600 V rated value 160 kW - at 690 V rated value 250 kW - at 1000 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 230 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 500 V rated value 150 kW - at 1000 V rated value 160 kW - at 1000 V rated value 150 kW - at 1000 V rated value 150 kW - at 1000 V rated value 150 kW - at 400 V rated value 150 kW - at 690 V rated value 150 kW - at 60 kW - a	-	200 A
- at 220 V rated value		
- 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 690 V rated value — at 690 V rated value — at 1000 V rated value — at 1000 V rated value — at 230 V rated value — at 230 V rated value — at 240 V rated value — at 240 V rated value — at 500 V rated value — at 400 V rated value — at 500 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 666 kW — at 1000 V rated value — at 690 V ror 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 500 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 500 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 500 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 va		
• 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 1000 V rated value • at AC-3e — at 230 V rated value — at 400 V rated value — at 400 V rated value — at 1000 V rated value • at 400 V rated value • at 690 V 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 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=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 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 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		0.75 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 400 V rated value 132 kW - at 500 V rated value 150 kW - at 1000 V rated value 160 kW - at 1000 V rated value 160 kW - at 400 V rated value 160 kW - at 400 V rated value 102 kW Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 66 kW • at 690 V rated value 102 kW Operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value 180 000 VA • up to 690 V for current peak value n=20 rated value 180 000 VA • up to 1000 V for current peak value n=20 rated value 180 000 VA • up to 1000 V for current peak value n=20 rated value 180 000 VA • up to 1000 V for current peak value n=20 rated value 180 000 VA • up to 230 V for current peak value n=30 rated value 160 000 VA • 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		
- 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 150 kW - at 1000 V rated value 150 kW - at 400 V rated value 150 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 66 kW • at 690 V rated value 102 kW operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value 100 000 kVA • up to 690 V for current peak value n=20 rated value 220 000 VA • up to 690 V for current peak value n=20 rated value 100 000 kVA • up to 1000 V for current peak value n=20 rated value 100 000 VA • up to 230 V for current peak value n=20 rated value 160 000 VA • up to 230 V for current peak value n=20 rated value 160 000 VA • up to 230 V for current peak value n=20 rated value 160 000 VA • up to 230 V for current peak value n=30 rated value 70 000 VA		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 130 kW - at 1000 V rated value 132 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 • at 690 V 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 690 V for current peak value n=20 rated value • up to 100 V for current peak value n=20 rated value • up to 100 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 100 V for current peak value n=20 rated value • up to 100 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 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		
- at 690 V rated value - at 1000 V rated value 132 kW • at AC-3e - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 1000 V rated value - at 400 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 400 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=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 • 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 400 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 400 V for current peak value n=20 rated value • up to 590 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 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 100 000 VA 120 000 VA		
 at AC-3e at 230 V rated value at 400 V rated value 132 kW at 1500 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 at 66 kW at 690 V rated value 102 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 aup to 1000 V for current peak value n=20 rated value up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value 100 000 VA operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value 100 000 VA operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value 120 000 VA 		
- 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 • 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 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		102 III
- at 400 V rated value - at 500 V rated value - 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 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 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 • 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		75 kW
- at 500 V rated value - 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 • 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 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=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		
- 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 oup 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 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 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 132 kW 66 kW 102 kW 100 000 kVA 180 000 VA 180 000 VA 180 000 VA 160 000 VA 160 000 VA		
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 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 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 120 000 VA		
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 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 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 100 000 kVA 220 000 VA 310 000 VA 160 000 VA 70 000 VA		
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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 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 100 000 kVA 220 000 VA 160 000 VA 160 000 VA 160 000 VA		
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up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value 120 000 VA		
 up to 1000 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value 120 000 VA 	·	
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 120 000 VA		
 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 120 000 VA 		160 000 VA
 up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value 120 000 VA 		
• up to 400 V for current peak value n=30 rated value 120 000 VA		70 000 VA
 up to 500 V for current peak value n=30 rated value 150 000 VA 		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 	160 000 VA	
value		
short-time withstand current in cold operating state		
up to 40 °C	4 990 A: Lice minimum erose section are to AC 1 reted value	
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	300 1/h	
at AC-3 maximum	700 1/h	
 at AC-3e maximum 	700 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	42 48 V	
at 60 Hz rated value	42 48 V	
control supply voltage at DC		
• rated value	42 48 V	
operating range factor control supply voltage rated	72 70 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	with variator	
• at 50 Hz	590 VA	
• at 60 Hz	590 VA	
	590 VA	
inductive power factor with closing power of the coil	0.0	
• at 50 Hz	0.9	
• at 60 Hz	0.9	
apparent holding power of magnet coil at AC	0.7.1/4	
• at 50 Hz	6.7 VA	
• at 60 Hz	6.7 VA	
inductive power factor with the holding power of the coil		
● 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	2	
instantaneous contact		

number of NO contacts for auxiliary contacts	2	
instantaneous contact	10 A	
operational current at AC-12 maximum	10 A	
operational current at AC-15	0.4	
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	40.0	
• at 24 V rated value	10 A	
at 48 V rated value	6 A	
at 60 V rated valueat 110 V rated value	6 A 3 A	
at 110 V rated value at 125 V rated value	2 A	
at 220 V rated value	1A	
at 600 V rated value	0.15 A	
operational current at DC-13	0.15 A	
at 24 V rated value	10 A	
at 24 V rated value at 48 V rated value	2 A	
at 46 V rated value at 60 V rated value	2 A	
at 60 V rated value at 110 V rated value	1 A	
at 110 V rated value at 125 V rated value	0.9 A	
at 125 V rated value at 220 V rated value	0.9 A 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	Tradity Switching per 100 million (17 V, 1 mz)	
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]	2-12 / \	
• 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		
with type of assignment 2 required	gG: 500 A (690 V, 100 kA)	
with type of abolgiment 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	
	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)	
for short-circuit protection of the auxiliary switch	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415	
for short-circuit protection of the auxiliary switch required	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)	
for short-circuit protection of the auxiliary switch	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 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	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 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	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 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	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 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 210 mm	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 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 210 mm 145 mm	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 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 210 mm 145 mm	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 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 210 mm 145 mm	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 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 210 mm 145 mm 202 mm	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 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 210 mm 145 mm 202 mm	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 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 210 mm 145 mm 202 mm	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 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 210 mm 145 mm 202 mm 10 mm 10 mm	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 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 210 mm 145 mm 202 mm 10 mm 10 mm	

— at the side	10 mm	
— downwards	10 mm	
for live parts	10 111111	
— forwards	20 mm	
— upwards — downwards	10 mm	
— at the side	10 mm	
Connections/ Terminals	TO THILL	
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>



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

CE



Type Test Certificates/Test Report Special Test Certificate

Marine / Shipping

other











Miscellaneous

other

Railway

Confirmation

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=3RT1065-6AD36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1065-6AD36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-6AD36

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1065-6AD36&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-6AD36/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1065-6AD36&objecttype=14&gridview=view1

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