SIEMENS

Data sheet 3RT1065-2NP36



power contactor, AC-3 265 A, 132 kW / 400 V AC (50-60 Hz) / DC operation 200-277 V AC/DC auxiliary contacts 2 NO + 2 NC 3-pole, frame size S10 busbar connections drive: electronic with PLC interface 24 V DC spring-loaded 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 	3.4 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
mbient 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 0.65 A — at 600 V rated value 0.65 A — at 600 V rated value 300 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 7.5 kW — at 400 V rated value 1.8 kW — at 400 V rated value 1.8 kW — at 699 V rated value 1.9 kW — at 699 V rated value 1.9 kW — at 400 V rated value 1.9 kW — at 690 V rated value 1.9 kW — at 690 V rated value 1.9 kW — at 690 V rated value 1.0 kW — at 690 V rated value 1.0 kW — at 1000 V rated value 1.0 kW — at 1000 V rated value 1.0 kW — at 1000 V rated value 1.0 kW — at 690 V roccurrent peak value n=20 rated value 1.0 kW — at 690 V roccurrent peak value n=20 rated value 1.0 kW — at 1000 V for current peak value n=20 rated value 1.0 kW — at 690 V for current peak value n=20 rated value 1.0 kW — at 1000 V for current peak value n=20 rated value 1.0 kW — at 1000 V for current peak value n=20 rated value 1.0 kW — at 690 V for current peak value n=20 rated value 1.0 kW — at 690 V for current peak value n=20 rated value 1.0 kW — at 690 V for current peak value n=20 rated value 1.0 kW — at 690 V for current peak value n=20 rated value 1.0 kW — at 690 V for curr		
• 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 150 kW - at 400 V rated value 160 kW - at 500 V rated value 150 kW - at 500 V rated value 150 kW - at 1000 V rated value 150 kW - at 400 V rated value 150 kW - at 1000 V rated value 150 kW - at 400 V rated value 150 kW - at 400 V rated value 150 kW - at 400 V rated value 160 kW - at 400 V rated value 160 kW - at 1000 V rated value 160 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 180 kW - at 4		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 operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 150 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 190 to 500 V for current peak value n=20 rated value 20 000 VA value operating apparent power at AC-6a • up to 500 V for current peak value n=20 rated value 20 000 VA value operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value 410 000 VA value operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value 410 000 VA value operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value 410 000 VA value operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value 70 000 VA • up to 230 V for current peak value n=30 rated value 70 000 VA • up to 230 V for current peak value n=30 rated value 70 000 VA • up to 230 V for current peak value n=30 rated value 70 000 VA	-	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 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 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=30 rated v		
• 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 • up to 690 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=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 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 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 • 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 M
- 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
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- 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		
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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	
Iimited 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 3 switching at zero current maximum limited to 10 s switching at zero current maximum	2 785 A; Use minimum cross-section acc. to AC-1 rated value
	1 664 A; Use minimum cross-section acc. to AC-1 rated value
limited to 30 s switching at zero current maximum	
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	4 000 4/1-
• at AC	1 000 1/h
• at DC	1 000 1/h
operating frequency	000 4 //
• 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	200 277 V
at 60 Hz rated value	200 277 V
control supply voltage at DC	
rated value	200 277 V
type of PLC-control input according to IEC 60947-1	Type 2
consumed current at PLC-control input according to	20 mA
IEC 60947-1 maximum	
voltage at PLC-control input rated value	24 V
operating range factor of the voltage at PLC-control	0.8 1.1
input	
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	530 VA
• at 60 Hz	530 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
• at 60 Hz	0.8
apparent holding power of magnet coil at AC	
• at 50 Hz	5 VA
• at 60 Hz	5 VA
inductive power factor with the holding power of the	V
coil	
● at 50 Hz	0.5
• at 60 Hz	0.5
closing power of magnet coil at DC	580 W
holding power of magnet coil at DC	3.4 W
closing delay	
• at AC	45 80 ms
• at DC	45 80 ms
opening delay	10 00 III0
• at AC	80 100 ms
• at DC	
♥ al DO	80 100 ms

arcing time	10 15 ms
arcing time control version of the switch operating mechanism	PLC-IN or Standard A1 - A2 (adjustable)
Auxiliary circuit	LO 117 Of Ottahuard AT - AZ (aujustable)
number of NC contacts for auxiliary contacts	2
instantaneous contact	
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	6 A
 at 400 V rated value 	3 A
at 500 V rated value	2 A
at 690 V rated value	1 A
operational current at DC-12	40.4
• at 24 V rated value	10 A
at 48 V rated value at 60 V rated value	6 A
at 60 V rated value at 110 V rated value	6 A 3 A
at 110 V rated value at 125 V rated value	2 A
at 125 V rated value at 220 V rated value	1 A
at 600 V rated value	0.15 A
operational current at DC-13	0.13 A
• at 24 V rated value	10 A
at 48 V rated value	2 A
• at 60 V rated value	2 A
at 100 V rated value at 110 V rated value	1A
at 175 V rated value at 125 V rated value	0.9 A
at 220 V rated value 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 kA)
 for short-circuit protection of the auxiliary switch required 	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
fastening method	screw fixing
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
Connections/ Terminals	
type of electrical connection	
for main current circuit	Connection bar
 for auxiliary and control circuit 	spring-loaded terminals
 at contactor for auxiliary contacts 	Spring-type terminals
of magnet coil	Spring-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	70 040 2
• stranded	70 240 mm²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.25 2.5 mm ²
finely stranded with core end processing	0.25 1.5 mm ²
finely stranded without core end processing	0.25 2.5 mm ²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid	2x (0.25 2.5 mm²)
— solid or stranded	2x (0,25 2,5 mm²)
finely stranded with core end processing	2x (0.25 1.5 mm²)
— finely stranded without core end processing	2x (0.25 2.5 mm²)
at AWG cables for auxiliary contacts	2x (24 14)
AWG number as coded connectable conductor cross	,
section	
for auxiliary contacts	24 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



Type Examination
Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping

other











Miscellaneous

other

Railway

Confirmation

Miscellaneous

Confirmation

Special Test Certific-

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=3RT1065-2NP36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1065-2NP36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-2NP36

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1065-2NP36&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-2NP36/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1065-2NP36&objecttype=14&gridview=view1

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