SIEMENS

Data sheet 3RT1064-2NF36



power contactor, AC-3e/AC-3 225 A, 110 kW / 400 V AC (50-60 Hz) / DC Uc: 96-127 V PLC input 24 V DC 3-pole, auxiliary contacts 2 NO + 2 NC drive: electronic main circuit: busbar control and auxiliary circuit: spring-loaded 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 	51 W
 at AC in hot operating state per pole 	17 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 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 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7
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	
at AC-3 rated value maximum	1 000 V
at AC-3e rated value maximum	1 000 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated	275 A
value	
• at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	275 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	250 A
— up to 1000 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	100 A
— up to 1000 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	100 A
• at AC-3	
— at 400 V rated value	225 A
— at 500 V rated value	225 A
— at 690 V rated value	225 A
at 1000 V rated valueat AC-3e	68 A
— at 400 V rated value	225 A
— at 500 V rated value	225 A
— at 690 V rated value	225 A
— at 1000 V rated value	68 A
• at AC-4 at 400 V rated value	195 A
• at AC-5a up to 690 V rated value	242 A
 at AC-5b up to 400 V rated value 	186 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	225 A
 up to 400 V for current peak value n=20 rated value 	225 A
— up to 500 V for current peak value n=20 rated value	225 A
— up to 690 V for current peak value n=20 rated value	225 A
— up to 1000 V for current peak value n=20 rated	68 A
value	
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	172 A
— up to 400 V for current peak value n=30 rated value	172 A
— up to 500 V for current peak value n=30 rated value	172 A
— up to 690 V for current peak value n=30 rated value	172 A
— up to 1000 V for current peak value n=30 rated value	68 A
minimum cross-section in main circuit at maximum AC-1 rated value	150 mm ²
operational current for approx. 200000 operating cycles at AC-4	00.4
at 400 V rated value	96 A
at 690 V rated value	85 A
operational current	
at 1 current path at DC-1 at 24 V stand value.	200 A
— at 24 V rated value	200 A
— at 60 V rated value	200 A
— at 110 V rated value	18 A
— at 220 V rated value	3.4 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.5 A
with 2 current paths in series at DC-1	
— at 24 V rated value	200 A

	— at 60 V rated value	200 A
	— at 110 V rated value	200 A
	— at 220 V rated value	20 A
• with 3 current paths in series at DC-1 - at 24 V rated value 200 A - at 10 V rated value 200 A - at 110 V rated value 11 A - at 24 V rated value 200 A - at 440 V rated value 11 A - at 60 V rated value 200 A - at 440 V rated value 41 A - at 6 Current path at DC-3 at DC-5 - at 22 V rated value 7.5 A - at 80 V rated value 0.5 A - at 80 V rated value 0.5 A - at 80 V rated value 0.7 A - at 90 V rated value 0.7 A - at 110 V rated value 0.7 A - at 140 V rated value 0.7 A - at 150 V rated value 0.7 A - at 160 V rated value 0.7 A - at 160 V rated value 0.7 A - at 17 V rated value 0.7 A - at 18 V rated value 0.7 A - at 18 V rated value 0.7 A - at 19 V rated value 0.7 A - at 10 V rated value 0.0 A - at 10 V rated va	— at 440 V rated value	3.2 A
	— at 600 V rated value	1.6 A
	 with 3 current paths in series at DC-1 	
= at 110 V rated value	— at 24 V rated value	200 A
	— at 60 V rated value	200 A
	— at 110 V rated value	200 A
■ at 1 Current path at DC-3 at DC-5 = 12 47 V rated value	— at 220 V rated value	200 A
	— at 440 V rated value	11 A
	— at 600 V rated value	4 A
at 80 V rated value	 at 1 current path at DC-3 at DC-5 	
	— at 24 V rated value	200 A
at 440 V rated value	— at 60 V rated value	7.5 A
• with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value 200 A — at 110 V rated value 200 A — at 110 V rated value 25 A — at 220 V rated value 0.65 A — at 440 V rated value 200 A — at 440 V rated value 200 A — at 60 V rated value 200 A — at 110 V rated value 200 A — at 220 V rated value 1.4 A — at 600 V rated value 200 A — at 440 V rated value 200 A — at 440 V rated value 1.4 A — at 600 V rated value 200 V V V V V V V V V V V V V V V V V V	— at 220 V rated value	0.6 A
	— at 440 V rated value	0.17 A
at 24 V rated value 200 A at 50 V rated value 200 A at 10 V rated value 200 A at 220 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 0.7 A rated value 2.5 A at 440 V rated value 2.5 A at 440 V rated value 2.5 A at 220 V rated value 2.5 A at 60 V rated value 2.5 A at 220 V rated value 3.7 A at 600 V rated value 4.5 A at 220 V rated value 5.5 K at 400 V rated value 4.5 A at 220 V rated value 5.5 K at 250 V rated value 6.5 K at 250 V rated va	— at 600 V rated value	0.12 A
	 with 2 current paths in series at DC-3 at DC-5 	
	— at 24 V rated value	200 A
	— at 60 V rated value	200 A
	— at 110 V rated value	200 A
with 3 current paths in series at DC-3 at DC-5	— at 220 V rated value	2.5 A
with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 1110 V rated value — at 1220 V rated value — at 220 V rated value — at 440 V rated value — at 460 V rated value — at 460 V rated value — at 460 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 470 V rated value — at 480 V rated value — at 480 V rated value — at 490 V rated value — at 690 V rated value — at 1900 V rated value — at 1900 V rated value — at 490 V rated value — at 690 V rated	— at 440 V rated value	0.65 A
at 24 V rated value 200 A 2	— at 600 V rated value	0.37 A
at 10 V rated value 200 A	 with 3 current paths in series at DC-3 at DC-5 	
- at 110 V rated value 200 A 2	— at 24 V rated value	200 A
- at 220 V rated value	— at 60 V rated value	200 A
- at 440 V rated value	— at 110 V rated value	200 A
- at 600 V rated value operating power	— at 220 V rated value	200 A
• at AC-3 - at 230 V rated value - at 400 V rated value - at 690 V rated value - at 1000 V rated value - at 1000 V rated value - at 230 V rated value - at 1000 V rated value - at 1000 V rated value - at 1000 V rated value 90 kW - at 1000 V rated value - at 230 V rated value - at 230 V rated value 110 kW - at 400 V rated value 110 kW - at 500 V rated value 110 kW - at 500 V rated value 200 kW - at 1000 V rated value 90 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 20 kW operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value 90 000 kVA • up to 400 V for current peak value n=20 rated value 90 000 VA • up to 500 V for current peak value n=20 rated value 90 000 VA • up to 1000 V for current peak value n=20 rated value 90 000 VA • up to 1000 V for current peak value n=20 rated value 1000 VA • up to 500 V for current peak value n=20 rated value 90 000 VA • up to 500 V for current peak value n=20 rated value 1000 VA • up to 500 V for current peak value n=30 rated value 110 000 VA • up to 500 V for current peak value n=30 rated value 90 000 VA • up to 500 V for current peak value n=30 rated value 110 000 VA • up to 500 V for current peak value n=30 rated value 90 000 VA • up to 500 V for current peak value n=30 rated value 110 000 VA • up to 500 V for current peak value n=30 rated value 90 000 VA • up to 500 V for current peak value n=30 rated value 90 000 VA	— at 440 V rated value	1.4 A
• at AC-3 — at 230 V rated value 55 kW — at 400 V rated value 160 kW — at 690 V rated value 90 kW • at 1000 V rated value 90 kW • at AC-3e — at 230 V rated value 90 kW • at AC-3e — at 230 V rated value 90 kW • at AC 3e — at 230 V rated value 110 kW — at 500 V rated value 160 kW — at 400 V rated value 160 kW — at 690 V rated value 200 kW — at 1000 V rated value 90 kW • at 1000 V rated value 200 kW — at 1000 V rated value 90 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 82 kW operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value 150 000 VA • up to 690 V for current peak value n=20 rated value 260 000 VA • up to 1000 V for current peak value n=20 rated value 260 000 VA • up to 1000 V for current peak value n=20 rated value 1000 VA • up to 1000 V for current peak value n=20 rated value 260 000 VA • up to 500 V for current peak value n=20 rated value 1000 VA • up to 500 V for current peak value n=30 rated value 110 000 VA • up to 400 V for current peak value n=30 rated value 4000 VA • up to 500 V for current peak value n=30 rated value 90 000 VA • up to 500 V for current peak value n=30 rated value 140 000 VA • up to 500 V for current peak value n=30 rated value 140 000 VA • up to 500 V for current peak value n=30 rated value 140 000 VA • up to 500 V for current peak value n=30 rated value 140 000 VA • up to 500 V for current peak value n=30 rated value 200 000 VA	— at 600 V rated value	0.75 A
- at 230 V rated value	operating power	
- at 400 V rated value 110 kW - at 500 V rated value 200 kW - at 690 V rated value 90 kW • at AC-3e - at 230 V rated value 110 kW - at 400 V rated value 90 kW • at AC-3e - at 230 V rated value 110 kW - at 500 V rated value 110 kW - at 500 V rated value 160 kW - at 690 V rated value 200 kW - at 1000 V rated value 90 kW Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 54 kW • at 690 V rated value 82 kW Operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value 150 000 VA • up to 500 V for current peak value n=20 rated value 190 000 VA • up to 690 V for current peak value n=20 rated value 260 000 VA • up to 1000 V for current peak value n=20 rated value 110 000 VA • up to 230 V for current peak value n=20 rated value 260 000 VA • up to 500 V for current peak value n=20 rated value 110 000 VA • up to 230 V for current peak value n=20 rated value 110 000 VA • up to 500 V for current peak value n=30 rated value 110 000 VA • up to 500 V for current peak value n=30 rated value 110 000 VA • up to 500 V for current peak value n=30 rated value 40 000 VA • up to 500 V for current peak value n=30 rated value 110 000 VA • up to 500 V for current peak value n=30 rated value 110 000 VA • up to 500 V for current peak value n=30 rated value 110 000 VA • up to 500 V for current peak value n=30 rated value 110 000 VA • up to 500 V for current peak value n=30 rated value 140 000 VA • up to 500 V for current peak value n=30 rated value 140 000 VA	• at AC-3	
- at 500 V rated value - at 690 V rated value 200 kW - at 1000 V rated value 90 kW • at AC-3e - at 230 V rated value 55 kW - at 400 V rated value 110 kW - at 500 V rated value 160 kW - at 690 V rated value 160 kW - at 690 V rated value 90 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value 90 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 90 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 90 000 kVA • up to 500 V for current peak value n=20 rated value 190 000 VA • up to 690 V for current peak value n=20 rated value 190 000 VA • up to 1000 V for current peak value n=20 rated value 110 000 VA • up to 230 V for current peak value n=20 rated value 110 000 VA • up to 500 V for current peak value n=30 rated value 110 000 VA • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value	— at 230 V rated value	55 kW
- at 690 V rated value	— at 400 V rated value	110 kW
- 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 90 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value 110 000 VA • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value 140 000 VA	— at 500 V rated value	160 kW
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 at 1000 V rated value by www. coperating power for approx. 200000 operating cycles at AC-4 at 400 V rated value at 400 V rated value at 400 V rated value 54 kW at 690 V rated value 20 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 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=30 rated value 110 000 VA operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value 110 000 VA up to 500 V for current peak value n=30 rated value 110 000 VA up to 500 V for current peak value n=30 rated value 110 000 VA up to 690 V for current peak value n=30 rated value 110 000 VA up to 690 V for current peak value n=30 rated value 110 000 VA up to 690 V for current peak value n=30 rated value 110 000 VA up to 690 V for current peak value n=30 rated value 200 000 VA	— at 690 V rated value	200 kW
- at 230 V rated value 55 kW - at 400 V rated value 110 kW - at 500 V rated value 200 kW - at 690 V rated value 90 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 54 kW • at 690 V rated value 82 kW operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value 150 000 VA • up to 500 V for current peak value n=20 rated value 190 000 VA • up to 690 V for current peak value n=20 rated value 260 000 VA • up to 1000 V for current peak value n=20 rated value 110 000 VA • up to 500 V for current peak value n=30 rated value 110 000 VA • up to 500 V for current peak value n=30 rated value 110 000 VA • up to 500 V for current peak value n=30 rated value 110 000 VA • up to 500 V for current peak value n=30 rated value 110 000 VA • up to 500 V for current peak value n=30 rated value 110 000 VA • up to 500 V for current peak value n=30 rated value 110 000 VA • up to 500 V for current peak value n=30 rated value 110 000 VA • up to 690 V for current peak value n=30 rated value 110 000 VA • up to 690 V for current peak value n=30 rated value 140 000 VA • up to 690 V for current peak value n=30 rated value 200 000 VA	— at 1000 V rated value	90 kW
- 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 90 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 • at 690 V rocurrent 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 690 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value	• at AC-3e	
- at 500 V rated value - at 690 V rated value - at 1000 V rated value 90 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 • at 690 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 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value	— at 230 V rated value	55 kW
- at 690 V rated value - at 1000 V rated value 90 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 • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • au pto 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 230 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value	— at 400 V rated value	110 kW
— at 1000 V rated value operating power for approx. 200000 operating cycles at AC- at 400 V rated value at 690 V rated value oup to 230 V for current peak value n=20 rated value oup to 400 V for current peak value n=20 rated value oup to 500 V for current peak value n=20 rated value oup to 500 V for current peak value n=20 rated value oup to 690 V for current peak value n=20 rated value oup to 1000 V for current peak value n=20 rated value oup to 1000 V for current peak value n=20 rated value oup to 1000 V for current peak value n=20 rated value oup to 230 V for current peak value n=30 rated value oup to 400 V for current peak value n=30 rated value oup to 400 V for current peak value n=30 rated value oup to 500 V for current peak value n=30 rated value oup to 690 V for current peak value n=30 rated value oup to 690 V for current peak value n=30 rated value oup to 690 V for current peak value n=30 rated value oup to 690 V for current peak value n=30 rated value oup to 690 V for current peak value n=30 rated value oup to 690 V for current peak value n=30 rated value oup to 690 V for current peak value n=30 rated value oup to 690 V for current peak value n=30 rated value oup to 690 V for current peak value n=30 rated value	— at 500 V rated value	160 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 operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value	— at 690 V rated value	200 kW
at 400 V rated value at 690 V rated value begin 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 1000 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value 110 000 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 up to 500 V for current peak value n=30 rated value 110 000 VA up to 690 V for current peak value n=30 rated value 200 000 VA	— at 1000 V rated value	90 kW
 at 400 V rated value at 690 V rated value 82 kW Operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value 200 000 VA 	operating power for approx. 200000 operating cycles at AC-	
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 up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value 200 000 VA	4	
operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value 200 000 VA		
 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 up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value 200 000 VA 		82 kW
 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 110 000 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 up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value 200 000 VA 	operating apparent power at AC-6a	
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 up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value 200 000 VA 	operating apparent power at AC-6a	
 up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value 200 000 VA 	• up to 230 V for current peak value n=30 rated value	60 000 VA
• up to 690 V for current peak value n=30 rated value 200 000 VA	• up to 400 V for current peak value n=30 rated value	110 000 VA
	• up to 500 V for current peak value n=30 rated value	140 000 VA
up to 1000 V for current peak value n=30 rated value 110 000 VA	• up to 690 V for current peak value n=30 rated value	200 000 VA
	up to 1000 V for current peak value n=30 rated value	110 000 VA

short-time withstand current in cold operating state up to 40 °C	
limited to 1 s switching at zero current maximum	4 000 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 5 s switching at zero current maximum	2 807 A; Use minimum cross-section acc. to AC-1 rated value
limited to 10 s switching at zero current maximum	2 082 A; Use minimum cross-section acc. to AC-1 rated value
limited to 30 s switching at zero current maximum	1 397 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum	1 144 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	1 144 A, Ode Hilliminan 61000 decitor add. to No. 1 lated value
• at AC	1 000 1/h
• at DC	1 000 1/h
operating frequency	1 000 1/11
at AC-1 maximum	750 1/h
• at AC-2 maximum	250 1/h
at AC-3 maximum	500 1/h
at AC-3e maximum	500 1/h
• at AC-4 maximum	130 1/h
Control circuit/ Control	100 1/11
type of voltage of the control supply voltage	AC/DC
	ACIDO
control supply voltage at AC • at 50 Hz rated value	96 127 V
at 60 Hz rated value control cumply voltage at DC	96 127 V
control supply voltage at DC	06 127 \/
rated value	96 127 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
type of PLC-control input according to IEC 60947-1	Type 2
consumed current at PLC-control input according to IEC 60947-1 maximum	20 mA
voltage at PLC-control input rated value	24 V
operating range factor of the voltage at PLC-control input	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	400 VA
— at 60 Hz	400 VA
• at maximum rated control supply voltage at AC	
— at 60 Hz	530 VA
— at 50 Hz	530 VA
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	
at minimum rated control supply voltage at DC	2.8 VA
at maximum rated control supply voltage at DC	3.4 VA
apparent holding power	
at minimum rated control supply voltage at AC	
— at 50 Hz	5.5 VA
— at 60 Hz	5.5 VA
• at maximum rated control supply voltage at AC	
— at 50 Hz	8.5 VA
— at 60 Hz	8.5 VA
apparent holding power of magnet coil at AC	
• at 50 Hz	8.5 VA

● at 60 Hz	8.5 VA
inductive power factor with the holding power of the coil	
● at 50 Hz	0.5
• at 60 Hz	0.4
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	
• at AC	80 100 ms
• at DC	80 100 ms
arcing time	10 15 ms
control version of the switch operating mechanism	PLC-IN or Standard A1 - A2 (adjustable)
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 220 V rated value	1 A
at 600 V rated value	0.15 A
operational current at DC-13	
• at 24 V rated value	10 A
 at 48 V rated value 	2 A
 at 60 V rated value 	2 A
 at 110 V rated value 	1 A
 at 125 V rated value 	0.9 A
 at 220 V rated value 	0.3 A
• at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	180 A
at 600 V rated value	192 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	
— at 200/208 V rated value	60 hp
— at 220/230 V rated value	75 hp
— at 460/480 V rated value	150 hp
— at 575/600 V rated value	200 hp
contact rating of auxiliary contacts according to UL	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
connectable conductor cross-section for main contacts	
• stranded	70 240 mm²
connectable conductor cross-section for auxiliary contacts	
 solid or stranded 	0.25 2.5 mm²
 finely stranded with core end processing 	0.25 1.5 mm²
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)
for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross	2x (24 14)
section	
for auxiliary contacts	24 14
Safety related data	
product function	
 mirror contact according to IEC 60947-4-1 	Yes
 positively driven operation according to IEC 60947-5-1 	No
suitability for use safety-related switching OFF	No
B10 value with high demand rate according to SN 31920	1 000 000
T1 value for proof test interval or service life according to IEC 61508	20 a
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
Certificates/ approvals	
General Product Approval	



Confirmation





<u>KC</u>



Functional
Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination Certificate

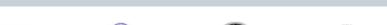




Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













Miscellaneous

other

other Railway

<u>Confirmation</u> <u>Confirmation</u> <u>Miscellaneous</u> <u>Vibration and Shock</u> <u>Special Test Certificate</u>

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RT1064-2NF36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1064-2NF36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1064-2NF36

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

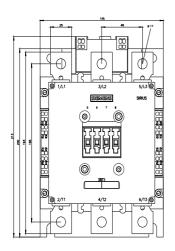
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1064-2NF36&lang=en

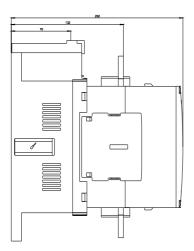
Characteristic: Tripping characteristics, I²t, Let-through current

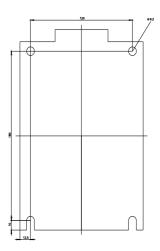
https://support.industry.siemens.com/cs/ww/en/ps/3RT1064-2NF36/char

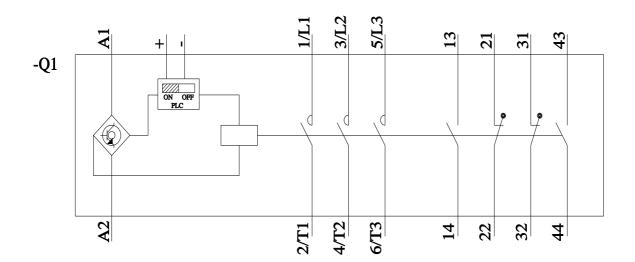
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1064-2NF36&objecttype=14&gridview=view1



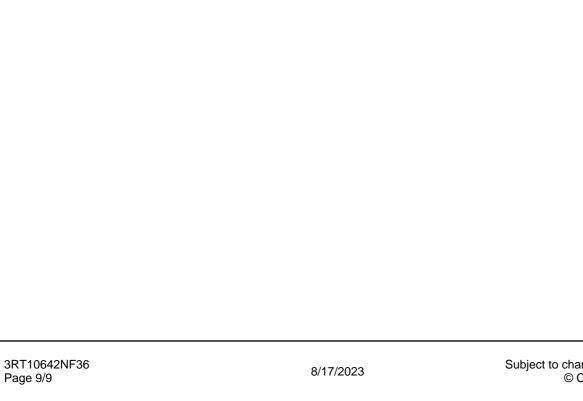






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