SIEMENS

Data sheet 3RT2036-3NF30



power contactor, AC-3e/AC-3, 51 A, 22 kW / 400 V, 3-pole, 83-155 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, main circuit: screw terminal, control and auxiliary circuit: spring-loaded terminal, size: S2,

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
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 	12 W
 at AC in hot operating state per pole 	4 W
 without load current share typical 	2 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
of auxiliary circuit with degree of pollution 3 rated value	690 V
surge voltage resistance	
 of main circuit rated value 	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	7.7g / 5 ms, 4.5g / 10 ms
• at DC	7.7g / 5 ms, 4.5g / 10 ms
shock resistance with sine pulse	
• at AC	12g / 5 ms, 7g / 10 ms
• at DC	12g / 5 ms, 7g / 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)	10/01/2014
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %

ain circuit	3
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	000.14
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	70 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	70 A
value	
 up to 690 V at ambient temperature 60 °C rated 	60 A
value	
• at AC-3	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
• at AC-3e	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
at AC-4 at 400 V rated value	41 A
at AC-5a up to 690 V rated value	61.6 A
at AC-5b up to 400 V rated value	41.5 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	43.2 A
— up to 400 V for current peak value n=20 rated value	43.2 A
— up to 500 V for current peak value n=20 rated value	43.2 A
— up to 690 V for current peak value n=20 rated value	24 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	28.8 A
— up to 400 V for current peak value n=30 rated value	28.8 A
— up to 500 V for current peak value n=30 rated value	28.8 A
— up to 690 V for current peak value n=30 rated value	24 A
minimum cross-section in main circuit at maximum AC-1 rated value	25 mm²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	24 A
at 690 V rated value	20 A
operational current	2077
• at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	23 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
with 2 current paths in series at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A
— at 440 V rated value	1A
— at 600 V rated value	0.8 A
with 3 current paths in series at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A

■ at 1 current path at DC-3 at DC-5 ■ at 24 V rated value	
at 24 V rated value	
at 60 V rated value 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1	
at 220 V rated value	
at 440 V rated value	
→ with 2 current paths in series at DC-3 at DC-5	
• with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value 45 A — at 110 V rated value 25 A — at 220 V rated value 5 A — at 440 V rated value 0.27 A — at 4600 V rated value 0.16 A • with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value 55 A — at 220 V rated value 55 A — at 60 V rated value 55 A — at 110 V rated value 55 A — at 20 V rated value 55 A — at 110 V rated value 55 A — at 20 V rated value 55 A — at 20 V rated value 0.8 A — at 440 V rated value 0.8 A — at 440 V rated value 0.8 A — at 460 V rated value 0.8 A — at 460 V rated value 0.8 A — at 600 V rated value 0.8 A — at 600 V rated value 0.8 A — at 600 V rated value 22 kW • at AC-3 — at 230 V rated value 22 kW • at AC-3e — at 690 V rated value 22 kW • at AC-3e — at 690 V rated value 22 kW • at AC-3e — at 690 V rated value 22 kW • at AC-3e — at 690 V rated value 22 kW • at AC-3e — at 690 V rated value 22 kW • at 690 V rated value 22 kW • at 690 V rated value 18 50 kW — at 690 V rated value 18 50 kW — at 690 V rated value 18 50 kW — at 690 V rated value 18 50 kW • at 690 V rated value 18 50 kW • at 690 V rated value 18 50 kW • at 690 V rated value 18 50 kW • at 690 V rated value 18 50 kW • at 690 V rated value 19 50 kW • at 690 V rated value 19 50 kW • at 690 V rated value 19 50 V for current peak value n=20 rated value 29.9 kVA • up to 500 V for current peak value n=20 rated value 29.9 kVA • up to 500 V for current peak value n=20 rated value 29.9 kVA • up to 500 V for current peak value n=20 rated value 37.4 kVA • up to 500 V for current peak value n=20 rated value 28.6 kVA	
- at 24 V rated value	
at 60 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 600 V rated value at 24 V rated value at 24 V rated value at 60 V rated value at 60 V rated value at 110 V rated value at 25 A at 110 V rated value at 25 A at 120 V rated value at 600 V rated value at 700 V rated value at 230 V rated value at 400 V rated value at 400 V rated value at 600 V	
 at 600 V rated value with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value 55 A — at 60 V rated value 55 A — at 110 V rated value 55 A — at 1220 V rated value — 55 A — at 220 V rated value — 55 A — at 440 V rated value — 0.6 A — at 600 V rated value — 0.35 A Operating power • at AC-2 at 400 V rated value • at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — at 400 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — 22 kW • at AC-3e — at 400 V rated value — at 500 V rated value — 22 kW Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 400 V rated value • at 690 V rated	
 at 600 V rated value with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value 55 A — at 60 V rated value 55 A — at 110 V rated value 55 A — at 220 V rated value — 55 A — at 220 V rated value — 0.6 A — at 600 V rated value — 0.5 A — at 440 V rated value 0.5 A — at 600 V rated value 22 kW • at AC-2 at 400 V rated value • at AC-3 — at 230 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — at 400 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 500 V rated value — at 690 V	
• with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value 55 A — at 60 V rated value 55 A — at 110 V rated value 55 A — at 220 V rated value 25 A — at 440 V rated value 0.6 A — at 460 V rated value 0.55 A operating power • at AC-2 at 400 V rated value 22 kW • at AC-3 — at 230 V rated value 15 kW — at 400 V rated value 22 kW • at AC-3 — at 230 V rated value 22 kW • at 690 V rated value 22 kW • at 690 V rated value 22 kW • at 690 V rated value 22 kW • at 400 V rated value 22 kW • at 400 V rated value 22 kW • at 690 V rated value 22 kW • at 690 V rated value 30 kW — at 690 V ra	
- at 24 V rated value 55 A - at 60 V rated value 55 A - at 110 V rated value 55 A - at 110 V rated value 55 A - at 220 V rated value 25 A - at 220 V rated value 0.6 A - at 600 V rated value 0.35 A operating power • at AC-2 at 400 V rated value 22 kW • at AC-3 - at 230 V rated value 15 kW - at 400 V rated value 22 kW - at 500 V rated value 22 kW • at AC-3 - at 2400 V rated value 22 kW - at 500 V rated value 30 kW - at 690 V rated value 22 kW • at AC-3e - at 400 V rated value 22 kW • at AC-3e - at 400 V rated value 22 kW • at AC-3e - at 400 V rated value 30 kW - at 690 V rated value 30 kW - at 690 V rated value 12 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 12.6 kW • at 690 V rated value 12.6 kW • at 690 V rated value 17.2 kVA • up to 230 V for current peak value n=20 rated value 29.9 kVA • up to 500 V for current peak value n=20 rated value 37.4 kVA • up to 690 V for current peak value n=20 rated value 37.4 kVA • up to 690 V for current peak value n=20 rated value 37.4 kVA • up to 690 V for current peak value n=20 rated value 28.6 kVA	
- at 60 V rated value 55 A - at 110 V rated value 55 A - at 220 V rated value 25 A - at 440 V rated value 0.6 A - at 600 V rated value 0.35 A operating power • at AC-2 at 400 V rated value 22 kW • at AC-3 - at 230 V rated value 15 kW - at 400 V rated value 22 kW - at 500 V rated value 22 kW - at 690 V rated value 22 kW - at 600 V rated value 30 kW - at 690 V rated value 22 kW • at AC-3e - at 400 V rated value 22 kW • at AC-3e - at 400 V rated value 22 kW • at AC-3e - at 400 V rated value 22 kW - at 500 V rated value 22 kW - at 690 V rated value 30 kW - at 690 V rated value 30 kW - at 690 V rated value 12.6 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 12.6 kW • at 690 V rated value 12.6 kW • up to 230 V for current peak value n=20 rated value 29.9 kVA • up to 500 V for current peak value n=20 rated value 37.4 kVA • up to 690 V for current peak value n=20 rated value 37.4 kVA • up to 690 V for current peak value n=20 rated value 37.4 kVA • up to 690 V for current peak value n=20 rated value 28.6 kVA	
- at 110 V rated value 55 A - at 220 V rated value 25 A - at 440 V rated value 0.6 A - at 600 V rated value 0.35 A operating power • at AC-2 at 400 V rated value 22 kW • at AC-3 - at 230 V rated value 15 kW - at 400 V rated value 22 kW - at 500 V rated value 22 kW • at AC-3 - at 230 V rated value 22 kW - at 690 V rated value 22 kW • at AC-3 - at 400 V rated value 22 kW • at AC-3 - at 400 V rated value 22 kW • at AC-3e - at 400 V rated value 22 kW • at AC-3e - at 400 V rated value 22 kW • at 690 V rated value 30 kW - at 690 V rated value 12 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 12.6 kW • at 690 V rated value 12.6 kW • at 690 V rated value 17.2 kVA • up to 300 V for current peak value n=20 rated value 29.9 kVA • up to 500 V for current peak value n=20 rated value 37.4 kVA • up to 690 V for current peak value n=20 rated value 37.4 kVA • up to 690 V for current peak value n=20 rated value 37.4 kVA • up to 690 V for current peak value n=20 rated value 37.4 kVA	
- at 220 V rated value 25 A - at 440 V rated value 0.35 A operating power • at AC-2 at 400 V rated value 22 kW • at AC-3 - at 230 V rated value 15 kW - at 400 V rated value 22 kW • at 500 V rated value 22 kW • at AC-3e 30 kW - at 690 V rated value 22 kW • at AC-3e 22 kW • at AC-3e 22 kW • at 400 V rated value 22 kW • at 500 V rated value 22 kW • at 400 V rated value 22 kW • at 690 V rated value 22 kW - at 500 V rated value 22 kW • at 500 V rated value 12 kW - at 690 V rated value 12 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 12.6 kW • at 690 V rated value 12.6 kW • at 690 V rated value 17.2 kVA • up to 230 V for current peak value n=20 rated value 29.9 kVA • up to 500 V for current peak value n=20 rated value 37.4 kVA • up to 690 V for current peak value n=20 rated value 37.4 kVA • up to 690 V for current peak value n=20 rated value 37.4 kVA • up to 690 V for current peak value n=20 rated value 28.6 kVA	
at 440 V rated value at 600 V rated value 0.35 A operating power ■ at AC-2 at 400 V rated value 22 kW ■ at AC-3 at 230 V rated value at 400 V rated value 22 kW at 400 V rated value at 500 V rated value at 690 V rated value 22 kW ■ at AC-3e at 400 V rated value at 400 V rated value 22 kW ■ at AC-3e at 400 V rated value at 500 V rated value at 500 V rated value at 690 V r	
— at 600 V rated value 0.35 A operating power 22 kW • at AC-2 at 400 V rated value 22 kW • at AC-3 15 kW — at 400 V rated value 22 kW — at 690 V rated value 22 kW • at AC-3e 22 kW — at 400 V rated value 22 kW — at 500 V rated value 30 kW — at 690 V rated value 22 kW operating power for approx. 200000 operating cycles at AC-4 4 • at 400 V rated value 12.6 kW • at 690 V rated value 18.2 kW operating apparent power at AC-6a 17.2 kVA • up to 230 V for current peak value n=20 rated value 29.9 kVA • up to 500 V for current peak value n=20 rated value 37.4 kVA • up to 690 V for current peak value n=20 rated value 28.6 kVA	
operating power	
• at AC-2 at 400 V rated value • at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 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 500 V rated value — at 690 V rated value operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value 12.6 kW • at 690 V rated value 18.2 kW operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value	
at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — at 400 V rated value 22 kW at AC-3e — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — at 690 V rated value operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value 12.6 kW at 690 V rated value 12.6 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 29.9 kVA up to 500 V for current peak value n=20 rated value 37.4 kVA up to 690 V for current peak value n=20 rated value 28.6 kVA	
- at 230 V rated value	
- at 400 V rated value - at 500 V rated value 30 kW - at 690 V rated value 22 kW • at AC-3e - at 400 V rated value 22 kW - at 500 V rated value 22 kW - at 500 V rated value 22 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 12.6 kW • at 690 V rated value 18.2 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 37.4 kVA • up to 690 V for current peak value n=20 rated value 28.6 kVA	
- at 500 V rated value - at 690 V rated value 22 kW • at AC-3e - at 400 V rated value 22 kW - at 500 V rated value 30 kW - at 690 V rated value 22 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 12.6 kW • at 690 V rated value 18.2 kW operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value 28.6 kVA	
- at 690 V rated value • at AC-3e — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value 22 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 12.6 kW • at 690 V rated value 18.2 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 37.4 kVA • up to 690 V for current peak value n=20 rated value 28.6 kVA	
at AC-3e — at 400 V rated value — at 500 V rated value — at 690 V rated value 22 kW operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value 12.6 kW at 690 V rated value 18.2 kW operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value 17.2 kVA up to 400 V for current peak value n=20 rated value 29.9 kVA up to 500 V for current peak value n=20 rated value 37.4 kVA up to 690 V for current peak value n=20 rated value 28.6 kVA	
- at 400 V rated value - at 500 V rated value 30 kW - at 690 V rated value 22 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value 12.6 kW • at 690 V rated value 18.2 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 37.4 kVA • up to 690 V for current peak value n=20 rated value 28.6 kVA	
— at 500 V rated value — at 690 V rated value operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value 12.6 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 28.6 kVA	
- at 690 V rated value operating power for approx. 200000 operating cycles at AC- at 400 V rated value at 690 V rated value at 690 V rated value 12.6 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 28.6 kVA	
operating power for approx. 200000 operating cycles at AC- • at 400 V rated value • at 690 V rated value 18.2 kW operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value 17.2 kVA • up to 400 V for current peak value n=20 rated value 29.9 kVA • up to 500 V for current peak value n=20 rated value 37.4 kVA • up to 690 V for current peak value n=20 rated value 28.6 kVA	
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 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 690 V for current peak value n=20 rated value 28.6 kVA 	
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 28.6 kVA	
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 up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value 28.6 kVA 	
• up to 690 V for current peak value n=20 rated value 28.6 kVA	
operating apparent power at AC-6a	
44 4 1 V A	
• up to 230 V for current peak value n=30 rated value 11.4 kVA	
• up to 400 V for current peak value n=30 rated value 19.9 kVA	
• up to 500 V for current peak value n=30 rated value 24.9 kVA	
• up to 690 V for current peak value n=30 rated value 28.6 kVA	
short-time withstand current in cold operating state up to 40 °C	
• limited to 1 s switching at zero current maximum 937 A; Use minimum cross-section acc. to AC-1 rated value	
• limited to 5 s switching at zero current maximum 697 A; Use minimum cross-section acc. to AC-1 rated value	
• limited to 10 s switching at zero current maximum 468 A; Use minimum cross-section acc. to AC-1 rated value	
• limited to 30 s switching at zero current maximum 282 A; Use minimum cross-section acc. to AC-1 rated value	
• limited to 60 s switching at zero current maximum 229 A; Use minimum cross-section acc. to AC-1 rated value	
no-load switching frequency	
• at AC 1 500 1/h	
• at DC 1 500 1/h	
operating frequency	
• at AC-1 maximum 1 000 1/h	
• at AC-2 maximum 600 1/h	
• at AC-3 maximum 800 1/h	
• at AC-3e maximum 800 1/h	

• at AC-4 maximum	250 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	83 155 V
• at 60 Hz rated value	83 155 V
control supply voltage at DC	
rated value	83 155 V
operating range factor control supply voltage rated value of	
magnet coil at DC	
• initial value	0.8
full-scale value	1.1
operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
inrush current peak	1.5 A
duration of inrush current peak	50 µs
locked-rotor current mean value	0.45 A
locked-rotor current peak	0.8 A
duration of locked-rotor current	230 ms
holding current mean value	12 mA
apparent pick-up power of magnet coil at AC	
• at 50 Hz	40 VA
• at 60 Hz	40 VA
apparent holding power of magnet coil at AC	21/4
• at 50 Hz	2 VA
• at 60 Hz	2 VA 23 W
closing power of magnet coil at DC holding power of magnet coil at DC	23 W
closing delay	1 VV
• at AC	35 110 ms
• at DC	35 110 ms
opening delay	
• at AC	30 55 ms
• at DC	30 55 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	10 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 at 48 V rated value	10 A
at 48 V rated value at 60 V rated value	6 A 6 A
at 60 V rated valueat 110 V rated value	3 A
at 110 V rated value at 125 V rated value	2 A
at 125 V rated value at 220 V rated value	1A
at 600 V rated value	0.15 A
operational current at DC-13	0.1071
at 24 V rated value	10 A
at 48 V rated value	2 A
at 60 V rated value	2 A
	711

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	52 A
at 600 V rated value	52 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	3 hp
— at 230 V rated value	10 hp
for 3-phase AC motor	
— at 200/208 V rated value	15 hp
— at 220/230 V rated value	15 hp
— at 460/480 V rated value	40 hp
— at 575/600 V rated value	50 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	7000 / 1 000
design of the fuse link	
for short-circuit protection of the main circuit	0.400 A (000 V 400 LA) - 1-00 A (000 V 400 L)
— with type of coordination 1 required	gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)
— with type of assignment 2 required	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)
for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
side-by-side mounting	Yes
height	114 mm
width	55 mm
depth	130 mm
required spacing	
with side-by-side mounting	
— forwards	10 mm
— upwards	10 mm
	10 mm
— upwards	
— upwards— downwards	10 mm
— upwards— at the side	10 mm
— upwards— downwards— at the side• for grounded parts	10 mm 0 mm
— upwards— downwards— at the side• for grounded parts— forwards	10 mm 0 mm
 upwards downwards at the side for grounded parts forwards upwards 	10 mm 0 mm 10 mm 10 mm
 upwards downwards at the side for grounded parts forwards upwards at the side 	10 mm 0 mm 10 mm 10 mm 6 mm
 upwards downwards at the side for grounded parts forwards upwards at the side downwards 	10 mm 0 mm 10 mm 10 mm 6 mm
 upwards downwards at the side for grounded parts forwards upwards at the side downwards for live parts 	10 mm 0 mm 10 mm 10 mm 10 mm 10 mm
 upwards downwards at the side for grounded parts forwards upwards at the side downwards for live parts forwards 	10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm
 upwards downwards at the side for grounded parts forwards upwards at the side downwards for live parts forwards upwards 	10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm
 upwards downwards at the side for grounded parts forwards upwards at the side downwards for live parts forwards upwards downwards 	10 mm 0 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm
 upwards downwards at the side for grounded parts forwards upwards at the side downwards for live parts forwards upwards at the side downwards at the side upwards downwards at the side 	10 mm 0 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm
 upwards downwards at the side for grounded parts forwards upwards at the side downwards for live parts forwards upwards at the side downwards 	10 mm 0 mm 10 mm
- upwards - downwards - at the side • for grounded parts - forwards - upwards - at the side - downwards • for live parts - forwards - upwards - upwards - at the side Connections/ Terminals type of electrical connection • for main current circuit	10 mm 0 mm 10 mm
 upwards downwards at the side for grounded parts forwards upwards at the side downwards for live parts forwards upwards at the side Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit 	10 mm 0 mm 10 mm screw-type terminals spring-loaded terminals
- upwards - downwards - at the side • for grounded parts - forwards - upwards - at the side - downwards • for live parts - forwards - upwards - upwards - downwards - downwards - the side - downwards - upwards - for auxiliary and control circuit - at contactor for auxiliary contacts	10 mm 0 mm 10 mm screw-type terminals spring-loaded terminals Spring-type terminals
- upwards - downwards - at the side • for grounded parts - forwards - upwards - at the side - downwards • for live parts - forwards - upwards - upwards - upwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil	10 mm 0 mm 10 mm screw-type terminals spring-loaded terminals
- upwards - downwards - at the side • for grounded parts - forwards - upwards - at the side - downwards • for live parts - forwards - upwards - upwards - upwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts	10 mm 0 mm 10 mm 5 mm 10 mm 5 mm
- upwards - downwards - at the side • for grounded parts - forwards - upwards - upwards - at the side - downwards • for live parts - forwards - upwards - upwards - upwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid or stranded	10 mm 0 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 10 mm 10 mm screw-type terminals spring-loaded terminals Spring-type terminals Spring-type terminals Spring-type terminals
- upwards - downwards - at the side • for grounded parts - forwards - upwards - at the side - downwards • for live parts - forwards - upwards - upwards - upwards - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid or stranded • finely stranded with core end processing	10 mm 0 mm 10 mm 5 mm 10 mm 5 mm
- upwards - downwards - at the side • for grounded parts - forwards - upwards - at the side - downwards • for live parts - forwards - upwards - upwards - upwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid or stranded	10 mm 0 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 10 mm 10 mm screw-type terminals spring-loaded terminals Spring-type terminals Spring-type terminals Spring-type terminals

connectable conductor cross-section for auxiliary contacts	
 solid or stranded 	0.5 2.5 mm ²
 finely stranded with core end processing 	0.5 1.5 mm ²
 finely stranded without core end processing 	0.5 2.5 mm ²
type of connectable conductor cross-sections	
 for auxiliary contacts 	
 — solid or stranded 	2x (0.5 2.5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
 for AWG cables for auxiliary contacts 	2x (20 14)
AWG number as coded connectable conductor cross section	
for main contacts	18 1
for auxiliary contacts	20 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
D10 value with high demand rate according to CN 04000	
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	1 000 000
	1 000 000 40 %
proportion of dangerous failures	
proportion of dangerous failures • with low demand rate according to SN 31920	40 %
 proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 	40 % 73 %
proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC	40 % 73 % 100 FIT
proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508	40 % 73 % 100 FIT 20 a
proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529	40 % 73 % 100 FIT 20 a
proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529	40 % 73 % 100 FIT 20 a

General Product Approval



Confirmation





Miscellaneous

<u>KC</u>

General Product Approval

EMC

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination Certificate





Type Test Certificates/Test Report

Test Certificates

Marine / Shipping

Special Test Certificate











Marine / Shipping

other

Railway





Confirmation

Confirmation

Vibration and Shock

Transport Information

Dangerous Good

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=3RT2036-3NF30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2036-3NF30

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-3NF30

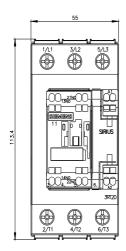
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

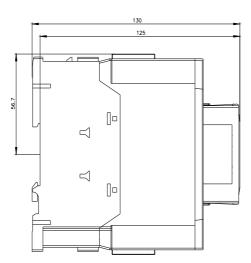
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2036-3NF30&lang=en

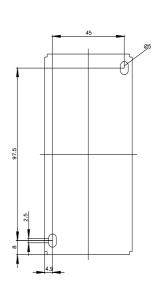
Characteristic: Tripping characteristics, I2t, Let-through current

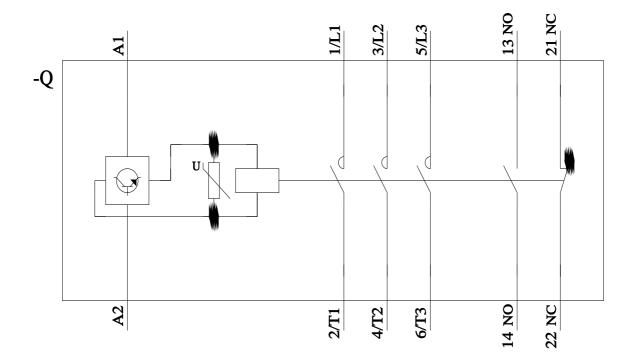
https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-3NF30/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2036-3NF30&objecttype=14&gridview=view1









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