## SIEMENS

## Data sheet

## 3RT2037-1NB30-1AA0



power contactor, AC-3e/AC-3, 65 A, 30 kW / 400 V, 3-pole, 20-33 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2, upright mounting position

4/3	
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	11.4 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	3.8 W
<ul> <li>without load current share typical</li> </ul>	2 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	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)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	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 %

Main 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	690 V
• at AC-3e rated value maximum	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	80 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	80 A
— up to 690 V at ambient temperature 60 °C rated value	70 A
• at AC-3	
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value	47 A
• at AC-3e	05 A
- at 400 V rated value	65 A
- at 500 V rated value	65 A
— at 690 V rated value	47 A
at AC-4 at 400 V rated value	55 A 70.4 A
at AC-5a up to 690 V rated value	70.4 A 53.9 A
<ul> <li>at AC-5b up to 400 V rated value</li> <li>at AC-6a</li> </ul>	55.9 A
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	56.9 A
— up to 400 V for current peak value n=20 rated value	56.9 A
— up to 500 V for current peak value n=20 rated value	56.9 A
— up to 690 V for current peak value n=20 rated value	47 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	38 A
— up to 400 V for current peak value n=30 rated value	38 A
— up to 500 V for current peak value n=30 rated value	38 A
— up to 690 V for current peak value n=30 rated value	38 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	28 A
• at 690 V rated value	22 A
operational current	
• 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
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— 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	1 A
— at 600 V rated value	0.8 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— 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 440 V rated value	2.9 A

	— at 600 V rated value	1.4 A
- at 00 V rated value         6 A           - at 200 V rated value         0.06 A           - at 400 V rated value         0.06 A           - at 600 V rated value         0.06 A           - at 22 V rated value         55 A           - at 22 V rated value         55 A           - at 22 V rated value         56 A           - at 22 V rated value         56 A           - at 22 V rated value         0.07 A           - at 24 V rated value         0.07 A           - at 60 V rated value         0.07 A           - at 24 V rated value         0.06 A           - at 24 V rated value         0.06 A           - at 20 V rated value         0.06 A           - at 20 V rated value         0.05 A           - at 20 V rated value         0.06 A           - at 20 V rated value         0.07 A	<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
	— at 24 V rated value	35 A
	— at 60 V rated value	6 A
	— at 220 V rated value	1 A
• with 2 current paths in series at DC-3 at DC-5- at 24 V rated value45 A- at 10 V rated value25 A- at 10 V rated value6 A- at 20 V rated value0.077 A- at 420 V rated value0.16 A- at 420 V rated value0.16 A- at 61 U rated value55 A- at 61 U rated value55 A- at 61 V rated value0.6 A- at 61 V rated value55 A- at 61 V rated value0.6 A- at 61 V rated value0.6 A- at 62 V rated value0.6 A A- at 62 V rated value0.6 A A	— at 440 V rated value	0.1 A
	— at 600 V rated value	0.06 A
	<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
	— at 24 V rated value	55 A
	— at 60 V rated value	45 A
	— at 110 V rated value	25 A
<ul> <li></li></ul>	— at 220 V rated value	5 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> <li>at 24 V rated value</li> <li>55 A</li> <li>at 20 V rated value</li> <li>56 A</li> <li>at 10 V rated value</li> <li>57 A</li> <li>at 400 V rated value</li> <li>58 A</li> <li>at 400 V rated value</li> <li>59 A</li> <li>at 400 V rated value</li> <li>50 KW</li> <li>at AC-3</li> <li>at 400 V rated value</li> <li>50 KW</li> <li>at AC-3</li> <li>at 400 V rated value</li> <li>51 KW</li> <li>at AC-3</li> <li>at 400 V rated value</li> <li>51 KW</li> <li>at AC-3</li> <li>at 400 V rated value</li> <li>51 KW</li> <li>at 400 V rated value</li> <li>52 KW</li> <li>at 400 V rated value</li> <li>54 KW</li> <li>at 400 V rated value n20 rated value</li> <li>54 KW</li> <li>at 400 V rated value n20 rated value</li> <li>54 KW</li> <li>at 400 V rated value n20 rated value</li> <li>54 KW</li> <li>at 400 V rated value n20 rated value</li> <li>54 KW</li> <li>at 400 V rated value n20 rated value</li> <li>54 KW</li> <li>at 400 V rated value n20 rated value</li> <li>54 KW</li> <li>at 4</li></ul>	— at 440 V rated value	0.27 A
	— at 600 V rated value	0.16 A
	<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
	— 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
operating power       at AC2 at 400 V rated value       30 kW         • at AC2 at 400 V rated value       30 kW         • at 230 V rated value       18.5 kW         - at 400 V rated value       30 kW         • at 600 V rated value       37 kW         • at AC2 at 400 V rated value       37 kW         • at AC3 •	— at 440 V rated value	0.6 A
• at AC-2 at 400 V rated value         30 kW           • at AC-3         -           - at 230 V rated value         30 kW           - at 600 V rated value         30 kW           - at 600 V rated value         37 kW           - at 230 V rated value         18.5 kW           - at 400 V rated value         30 kW           - at 600 V rated value         37 kW           - at 600 V rated value         14.7 kW           • at 400 V rated value         14.7 kW           • at 600 V rated value         20 kW           operating paperent power at AC-6a         20 kW           • up to 500 V for current peak value n=20 rated value         39.4 kVA           • up to 500 V for current peak value n=20 rated value         51.1 kVA           • up to 500 V for current peak value n=20 rated value         52.1 kVA           • up to 500 V for current peak value n=30 rated value         52.8 kVA	— at 600 V rated value	0.35 A
• at AC-3         - at 230 V rated value         18.5 kW           - at 400 V rated value         30 kW           - at 500 V rated value         37 kW           - at 600 V rated value         37 kW           • at AC-3e         -           - at 230 V rated value         37 kW           • at AC-3e         18.5 kW           - at 230 V rated value         37 kW           • at 400 V rated value         30 kW           - at 600 V rated value         37 kW           • at 600 V rated value         27 kW           • at 600 V rated value         28 kW           • up to 500 V for current peak value n=20 rated value         22 kW           • up to 500 V for current peak value n=30 rated value         48 z kVA           • up to 500 V for current peak value n=30 rated value         56.1 kVA           • up to 500 V for current peak value n=30 rated value         28 z kVA           • up to 500 V for current peak value n=30 rated value         28 z kVA           • up to 500 V for current peak value n=30 rated value         28 z kVA           • up to 500 V fo	operating power	
	<ul> <li>at AC-2 at 400 V rated value</li> </ul>	30 kW
	• at AC-3	
at 500 V rated value37 kW at 680 V rated value37 kW• at AC-3e at 230 V rated value18.5 kW at 400 V rated value30 kW at 500 V rated value37 kWoperating power for approx. 200000 operating cycles at AC-47 kW• at 400 V rated value14.7 kW• at 690 V rated value20 kWoperating apparent power at AC-6a20 kW• up to 230 V for current peak value n=20 rated value39 k kVA• up to 520 V for current peak value n=20 rated value49.2 kVA• up to 520 V for current peak value n=20 rated value49.2 kVA• up to 520 V for current peak value n=20 rated value61.1 kVA• up to 500 V for current peak value n=20 rated value45.1 kVA• up to 500 V for current peak value n=20 rated value51.1 kVA• up to 500 V for current peak value n=30 rated value22.8 kVA• up to 500 V for current peak value n=30 rated value23.2 kVA• up to 500 V for current peak value n=30 rated value24.2 kVA• up to 500 V for current peak value n=30 rated value25.8 kVA• up to 500 V for current peak value n=30 rated value25.2 kVA• up to 500 V for current peak value n=30 rated value25.2 kVA• up to 500 V for current peak value n=30 rated value25.2 kVA• up to 500 V for current peak value n=30 rated value25.2 kVA• up to 500 V for current peak value n=30 rated value27.2 kUse minimum cross-section acc. to AC-1 rated value• up to 500 V for current peak value n=30 rated value27.2 kUse minimum cr	— at 230 V rated value	18.5 kW
	— at 400 V rated value	30 kW
et tAC-3e <ul> <li></li></ul>	— at 500 V rated value	37 kW
at 230 V rated value18.5 kW at 400 V rated value30 kW at 500 V rated value37 kW at 600 V rated value37 kWoperating power for approx. 200000 operating cycles at AC-44 at 400 V rated value14.7 kW at 600 V rated value20 kWoperating apparent power at AC-6a22.6 kVA up to 230 V for current peak value n=20 rated value39.4 kVA up to 400 V for current peak value n=20 rated value49.2 kVA up to 500 V for current peak value n=20 rated value56.1 kVA up to 500 V for current peak value n=30 rated value56.1 kVA up to 500 V for current peak value n=30 rated value26.2 kVA up to 500 V for current peak value n=30 rated value26.2 kVA up to 500 V for current peak value n=30 rated value26.2 kVA up to 500 V for current peak value n=30 rated value28.8 kVA up to 500 V for current peak value n=30 rated value32.8 kVA up to 500 V for current peak value n=30 rated value45.3 kVA up to 500 V for current peak value n=30 rated value45.3 kVA up to 500 V for current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value et to 15 s switching at zero current maximum36.4; Use minimum cross-section acc. to AC-1 rated value et to 60 s switching at zero current maximum336.4; Use minimum cross-section acc. to AC-1 rated value imited to 10 s switching at zero current maximum360.1/h et to 60 s switching at zero current maximum1500 1/h at AC<	— at 690 V rated value	37 kW
	• at AC-3e	
at 500 V rated value       37 kW         at 690 V rated value       37 kW         operating power for approx. 20000 operating cycles at AC-4       -         • at 400 V rated value       14.7 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       39.4 kVA         • up to 500 V for current peak value n=20 rated value       49.2 kVA         • up to 500 V for current peak value n=20 rated value       50.4 kVA         • up to 500 V for current peak value n=20 rated value       51.4 kVA         • up to 500 V for current peak value n=20 rated value       52.4 kVA         • up to 500 V for current peak value n=30 rated value       52.4 kVA         • up to 600 V for current peak value n=30 rated value       53.4 kVA         • up to 600 V for current peak value n=30 rated value       26.2 kVA         • up to 600 V for current peak value n=30 rated value       25.3 kVA         • up to 600 V for current peak value n=30 rated value       35.4 kVA         • up to 500 V for current peak value n=30 rated value       26.2 kVA         • up to 600 V for current peak value n=30 rated value       26.2 kVA         • up to 600 V for current peak value n=30 rated value       27.4 kVA         • up to 600 V for current peak value n=30 rated	— at 230 V rated value	18.5 kW
	— at 400 V rated value	30 kW
operating power for approx. 200000 operating cycles at AC-4         • at 400 V rated value       14.7 kW         • at 690 V rated value       20 kW         operating apparent power at AC-6a       20 kW         • up to 230 V for current peak value n=20 rated value       39.4 kVA         • up to 500 V for current peak value n=20 rated value       39.4 kVA         • up to 500 V for current peak value n=20 rated value       56.1 kVA         • up to 680 V for current peak value n=30 rated value       56.1 kVA         operating apparent power at AC-6a       22.8 kVA         • up to 500 V for current peak value n=30 rated value       26.2 kVA         • up to 500 V for current peak value n=30 rated value       25.2 kVA         • up to 690 V for current peak value n=30 rated value       25.8 kVA         • up to 500 V for current peak value n=30 rated value       25.8 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         short-time withstand current in cold operating state up to 40 °C       1055 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 1 s switching at zero current maximum       1055 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       520 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       520 A; Use minim	— at 500 V rated value	37 kW
4       14.7 kW         • at 400 V rated value       20 kW         operating apparent power at AC-6a       20 kW         • up to 230 V for current peak value n=20 rated value       39.4 kVA         • up to 500 V for current peak value n=20 rated value       39.4 kVA         • up to 500 V for current peak value n=20 rated value       49.2 kVA         • up to 500 V for current peak value n=20 rated value       49.2 kVA         • up to 500 V for current peak value n=30 rated value       50.1 kVA         operating apparent power at AC-6a       15.1 kVA         • up to 500 V for current peak value n=30 rated value       26.2 kVA         • up to 500 V for current peak value n=30 rated value       25.4 kVA         • up to 500 V for current peak value n=30 rated value       26.2 kVA         • up to 500 V for current peak value n=30 rated value       25.4 kVA         • up to 500 V for current peak value n=30 rated value       32.8 kVA         • up to 690 V for current peak value n=30 rated value       32.8 kVA         • up to 690 V for current maximum       1055 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 1s switching at zero current maximum       1055 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       520 A; Use minimum cross-section acc. to AC-1 rated value         • limi	— at 690 V rated value	37 kW
• at 400 V rated value14.7 kW• at 690 V rated value20 kWoperating apparent power at AC-6a20 kW• up to 230 V for current peak value n=20 rated value39.4 kVA• up to 600 V for current peak value n=20 rated value39.4 kVA• up to 600 V for current peak value n=20 rated value49.2 kVA• up to 500 V for current peak value n=20 rated value56.1 kVAoperating apparent power at AC-6a		
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<ul> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>26.2 kVA</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>32.8 kVA</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>45.3 kVA</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>1 055 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 1 s switching at zero current maximum</li> <li>1 055 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 10 s switching at zero current maximum</li> <li>520 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 30 s switching at zero current maximum</li> <li>336 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 60 s switching at zero current maximum</li> <li>272 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>at AC</li> <li>at AC</li> <li>at AC</li> <li>at DC</li> <li>at AC-1 maximum</li> <li>800 1/h</li> <li>at AC-2 maximum</li> <li>400 1/h</li> </ul>		
• up to 400 V for current peak value n=30 rated value26.2 kVA• up to 500 V for current peak value n=30 rated value32.8 kVA• up to 690 V for current peak value n=30 rated value45.3 kVAshort-time withstand current in cold operating state up to 40 °C45.3 kVA• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum1 500 1/h• at AC1 500 1/h• at AC-1 maximum800 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h		15.1 kVA
• up to 500 V for current peak value n=30 rated value32.8 kVA• up to 690 V for current peak value n=30 rated value45.3 kVAshort-time withstand current in cold operating state up to $40^{\circ}$ C-• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum730 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum372 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum370 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum370 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum370 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum370 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum370 A; Use minimum cross-section acc. to AC-1 rated value• at AC1 500 1/h• at AC1 500 1/h• at AC-1 maximum800 1/h• at AC-1 maximum400 1/h		
• up to 690 V for current peak value n=30 rated value45.3 kVAshort-time withstand current in cold operating state up to 40 °C45.3 kVA• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum730 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching frequency1 500 1/h• at AC1 500 1/h• at AC1 500 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h		
short-time withstand current in cold operating state up to 40 °C1• limited to 1 s switching at zero current maximum1• limited to 5 s switching at zero current maximum730 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC1 500 1/h• at AC1 500 1/h• at AC1 500 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h		
• limited to 5 s switching at zero current maximum730 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC1 500 1/h• at DC1 500 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h	short-time withstand current in cold operating state up to	
• limited to 5 s switching at zero current maximum730 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching frequency272 A; Use minimum cross-section acc. to AC-1 rated value• at AC1 500 1/h• at DC1 500 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h	<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	1 055 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency272 A; Use minimum cross-section acc. to AC-1 rated value• at AC1 500 1/h• at DC1 500 1/hoperating frequency800 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h	<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	730 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency-• at AC1 500 1/h• at DC1 500 1/hoperating frequency-• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h	<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	520 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency• at AC1 500 1/h• at DC1 500 1/hoperating frequency• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h	<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	336 A; Use minimum cross-section acc. to AC-1 rated value
• at AC       1 500 1/h         • at DC       1 500 1/h         operating frequency       1 500 1/h         • at AC-1 maximum       800 1/h         • at AC-2 maximum       400 1/h	<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	272 A; Use minimum cross-section acc. to AC-1 rated value
• at DC1 500 1/hoperating frequency800 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h	no-load switching frequency	
operating frequency800 1/h• at AC-2 maximum400 1/h	• at AC	1 500 1/h
• at AC-1 maximum         800 1/h           • at AC-2 maximum         400 1/h	• at DC	1 500 1/h
• at AC-2 maximum 400 1/h	operating frequency	
	• at AC-1 maximum	800 1/h
• at AC-3 maximum 700 1/h	• at AC-2 maximum	400 1/h
	• at AC-3 maximum	700 1/h

• at AC-3e maximum	700 1/h
• at AC-4 maximum	200 1/h
• at AC-4 maximum	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
• at 50 Hz rated value	20 33 V
at 50 Hz rated value     at 60 Hz rated value	20 33 V 20 33 V
control supply voltage at DC	
rated value	20 33 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	0.8 11
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
inrush current peak	3 A 50 up
duration of inrush current peak	50 µs
locked-rotor current mean value	
locked-rotor current peak	2.6 A
duration of locked-rotor current	230 ms
holding current mean value	40 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	
• at 50 Hz	2 VA
• at 60 Hz	2 VA
_closing power of magnet coil at DC	23 W
holding power of magnet coil at DC	1 W
closing delay	
• 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	1
contacts	
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	
• 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 24 V fated value     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		
<ul> <li>at 220 V rated value</li> </ul>	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	65 A		
<ul> <li>at 600 V rated value</li> </ul>	52 A		
yielded mechanical performance [hp]			
for single-phase AC motor			
— at 110/120 V rated value	5 hp		
— at 230 V rated value	10 hp		
• for 3-phase AC motor			
— at 200/208 V rated value	20 hp		
— at 220/230 V rated value	20 hp		
— at 460/480 V rated value	50 hp		
— at 575/600 V rated value	50 hp		
contact rating of auxiliary contacts according to UL Short-circuit protection	A600 / P600		
design of the fuse link			
<ul> <li>for short-circuit protection of the main circuit</li> </ul>			
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)		
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (415V,80kA)		
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)		
Installation/ mounting/ dimensions			
mounting position	standing, on horizontal 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		
	130 mm		
depth			
required spacing			
e with side by side mounting			
with side-by-side mounting	10 mm		
— forwards	10 mm		
— forwards — upwards	10 mm		
— forwards — upwards — downwards	10 mm 10 mm		
<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul>	10 mm		
<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> </ul>	10 mm 10 mm 0 mm		
<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> </ul>	10 mm 10 mm 0 mm		
<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> </ul>	10 mm 10 mm 0 mm 10 mm 10 mm		
<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> </ul>	10 mm 10 mm 0 mm 10 mm 10 mm 6 mm		
<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> </ul>	10 mm 10 mm 0 mm 10 mm 10 mm		
<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> </ul>	10 mm 10 mm 0 mm 10 mm 10 mm 6 mm		
<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> </ul>	10 mm 10 mm 0 mm 10 mm 10 mm 6 mm		
<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> </ul>	10 mm 10 mm 0 mm 10 mm 6 mm 10 mm		
<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>for live parts</li> <li>forwards</li> </ul>	10 mm 10 mm 0 mm 10 mm 6 mm 10 mm		
<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>for live parts</li> <li>upwards</li> <li>upwards</li> </ul>	10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm		
<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>for wards</li> <li>upwards</li> <li>downwards</li> <li>downwards</li> <li>downwards</li> <li>downwards</li> <li>downwards</li> <li>downwards</li> </ul>	10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>upwards</li> <li>at the side</li> </ul>	10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>at the side</li> <li>at the side</li> <li>downwards</li> <li>at the side</li> </ul>	10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>at the side</li> <li>at the side</li> <li>downwards</li> <li>at the side</li> <li>downwards</li> <li>at the side</li> </ul>	10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 6 mm		
<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>forwards</li> <li>at the side</li> <li>downwards</li> <li>at the side</li> <li>downwards</li> <li>at the side</li> <li>downwards</li> <li>at the side</li> <li>downwards</li> <li>for numeration of the side</li> <li>downwards</li> <li>for numeration of the side</li> </ul>	10 mm 10 mm 0 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>for vards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>at the side</li> <li>downwards</li> <li>at the side</li> <li>downwards</li> <li>for aut the side</li> <li>for nain current circuit</li> <li>for auxiliary and control circuit</li> </ul>	10 mm 10 mm 0 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>at the side</li> <li>downwards</li> <li>at the side</li> <li>downwards</li> <li>for nain current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> </ul>	10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 5 crew-type terminals screw-type terminals screw-type terminals		
<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>at the side</li> <li>downwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>at the side</li> <li>downwards</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> </ul>	10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 5 crew-type terminals screw-type terminals Screw-type terminals Screw-type terminals		
<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>for vards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>at the side</li> <li>downwards</li> <li>at the side</li> <li>downwards</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid or stranded</li> </ul>	10 mm 10 mm 0 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 10 mm 10 mm 6 mm 2x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> )		
<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>for vards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>at the side</li> <li>downwards</li> <li>at the side</li> <li>downwards</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul>	10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 5 crew-type terminals screw-type terminals Screw-type terminals Screw-type terminals		
<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>for vards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>at the side</li> <li>downwards</li> <li>at the side</li> <li>downwards</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid or stranded</li> </ul>	10 mm 10 mm 0 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 10 mm 10 mm 6 mm 2x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> )		

<ul> <li>connectable conduct</li> <li>solid or stranded</li> </ul>	tor cross-section for auxi	liary contacts	0.5 2.5 mm²			
	with core end processing		0.5 2.5 mm <sup>2</sup>			
	conductor cross-sections					
<ul> <li>for auxiliary con</li> </ul>						
— solid or str			2x (0.5 1.5 mm²), 2x (0.75	2.5 mm <sup>2</sup> )		
	nded with core end process	ina	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75			
-	for auxiliary contacts	ing	2x (20 16), 2x (18 14)			
	ed connectable conducto	or cross	2X (20 10), 2X (10 14)			
<ul> <li>for main contact</li> </ul>	s		18 1			
<ul> <li>for auxiliary con</li> </ul>			20 14			
Safety related data						
product function						
-	ccording to IEC 60947-4-1		Yes			
	-	60047 5 1	No			
· · ·	operation according to IEC					
	emand rate according to SN	131920	1 000 000			
proportion of danger		20	40.0/			
	d rate according to SN 319		40 %			
	nd rate according to SN 319		73 %			
	ow demand rate according		100 FIT			
T1 value for proof test 61508	interval or service life acco	rding to IEC	20 a			
	n the front according to II	EC 60529	IP20			
•	the front according to IEC		finger-safe, for vertical contact from the front			
suitability for use		00020	inger sale, for vertical contact			
safety-related s	witching OFF		Yes			
Certificates/ approvals	÷	_	165			
General Product App						
(SP)		<u>Confirmatior</u>		KC	EHC	
EMC	Functional Safety/Safety of Ma- chinery	Declaration of (	Conformity	Test Certificates		
RCM	<u>Type Examination Cer-</u> tificate	UK CA	CE EG-Konf.	Special Test Certific- ate	Type Test Certific- ates/Test Report	
Marine / Shipping						
ABS	B U R E A U V E R I TAS		Hoyd's Register us	PRS	RINA	
Marine / Shipping	other		Railway	Dangerous Good	Environment	
RMRS RMRS	<u>Confirmation</u>	<u>Confirmatior</u>	<u>Vibration and Shock</u>	Transport Information	Environmental Con- firmations	

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=3RT2037-1NB30-1AA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2037-1NB30-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1NB30-1AA0

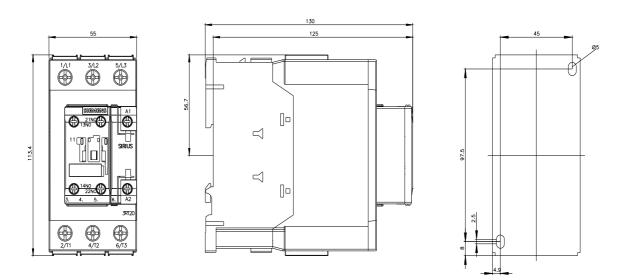
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

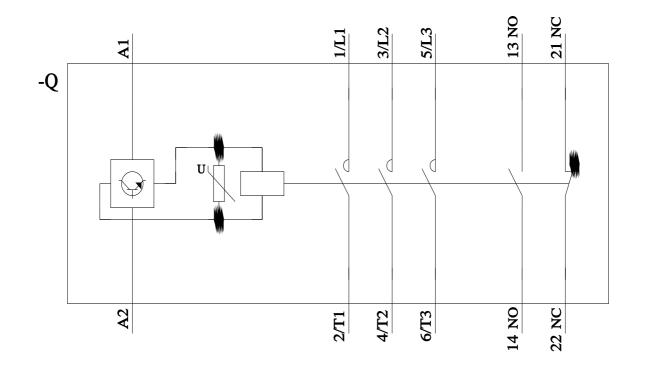
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2037-1NB30-1AA0&lang=en

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1NB30-1AA0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-1NB30-1AA0&objecttype=14&gridview=view1





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